

City Park, 5/12/12  
Edwa City 6/4/12  
Okoboji 7/5/12  
Okoboji 7/30/12  
Canton, S.D. 8/10/12  
Hawarden to Sioux City 8/12/12  
Shelby 8/12/12  
Thruite 8/12/12





Park - May 21-1912

Upland

*Q. alba*  
*Q. rubra*  
*Q. velutina*  
*Ulmus fulva*  
" *americanus*  
*Q. macrocarpa*  
*Carya* <sup>*ovalis*</sup> *alba*  
*Pyrus ioensis*  
*Juglans nigra*  
*Pinus strobus* (planted)  
*Viburnum americanum*  
*Acer latifolium* (small)  
*Populus tremuloides*  
*Cornus serotina*

Black locust  
white cherry

Box elder  
Red maple



Lower Bottoms -

Ulmus americanus  
 Juglans nigra  
<sup>Fraxinus</sup>  
 Fraxinus ash  
 Betula nigra  
 Salix nigra  
 Q. macrocarpa - small leaf  
 Carya amara - fl.  
 Crataegus mollis  
 Acer negundo  
 Gynandrus divinus  
 Celtis -  
 Salix amygdaloides  
 Acer <sup>longifolium</sup> saccharinum  
 Platanus occidentalis  
 Populus deltoides

Upper Bottoms May 27-1912

Betula nigra  
 Ulmus americanus  
 Crataegus mollis  
<sup>Fraxinus</sup>  
 Fraxinus ash  
 5 Quercus macrocarpa  
 Pyrus ioensis  
~~Pyrus ioensis~~  
 Quercus rubra  
 " velutina  
 10 Juglans nigra  
 Crataegus tomentosa  
<sup>Fraxinus</sup>  
 Fraxinus ash  
 Celtis occidentalis  
 Carya amara  
 15 Fraxinus nigra  
 Prunus serotina  
 Viburnum americanum  
 Prunus americana



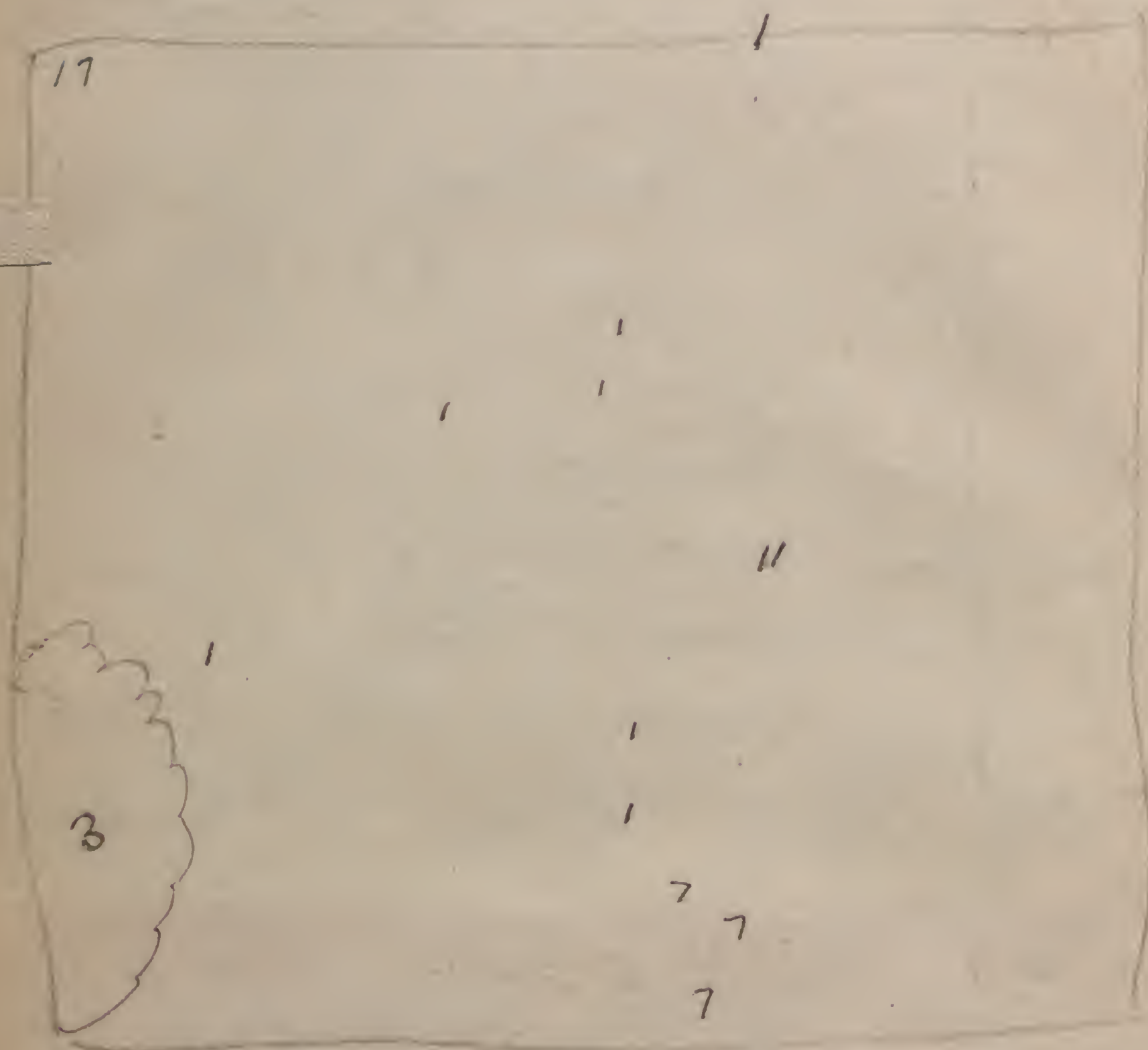
June 4, 1912

Prairie E. of Iowa City

~~in~~ *Phlox pilularis* <sup>virg</sup> fl.  
*Cimicifuga americana* - fr. (mild)  
*Asclepias millefolium* - fl.  
*Equisetum ~~laevigatum~~ <sup>hyemale</sup>* - fr.  
*Lithospermum canescens* - fl. & fr.  
*Rhus glabra* - fr.  
*Eriogonum ramosum* fl.  
*Salix verticillata* fl.  
*Potentilla canadensis* fl.  
*Asperula hirsuta* fl.  
*Oenothera* - (large) in bud.  
*Scutellaria parvula* fl.  
*Koeleria cristata* fl.  
*Caulis tuckera* - bud.  
*Koeleria angustifolia* - fl.  
*Baptisia leucantha* fl.  
*Salix humilis* fr.  
*Panicum puberulum* fl.  
*Phlox pilosa* fl.  
*Senecio glaucus* fl.  
*Achillea canadensis* fl.  
*Carex hirsuta* fl.  
*Hemlock hirsuta* fl.  
*Lobelia* -



Selected plants on  
slope just S. of old house  
N. of R.R.



- 1 - *Phlox pilosa* 7-
- 2 - *Oxalis violacea* 14
- 3 - *Andropogon scoparius* 1
- 4 - *Equisetum arvense* 10
- 5 - *Koeleria cristata* 1
- 6 - *Poa pratensis*
- 7 - *Hypoxis linaria*
- 8 - *Taraxacum*
- 9 - *Carex cristata*
- 10 - *Equisetum hyemale*
- 11 - *Sisyrinchium campense*

- 12 - *Viola pedunculata*
- 13 - *Lepachys pumila*
- 14 - *Potamogeton amplifolius*
- 15 - *Potamogeton amplifolius*
- 16 - *Quercus prinus*
- 17 - *Helianthus annuus*

2<sup>nd</sup> general just 6<sup>th</sup> month

- 1 - *Equisetum arvense* - 1
- 2 - *Carex (vulgaris)* 3
- 3 - *Koeleria cristata* 2
- 4 - *Equisetum hyemale* - 8-
- 5 - " *arvense* - 7
- 6 - *Oxalis violacea* - 20+
- 7 - *Andropogon scoparius* - 2 -
- Hypoxis linaria*
- Equisetum arvense*
- Sisyrinchium campense*
- Panicum* - (fine)
- Poa pratensis*
- Lithospermum commune*
- Lepachys pumila*
- Petalostemum purpureum*
- Viola pedunculata*
- Andropogon scoparius*



(General list (cm))

*Campanula medium* fl.

*Scrophularia leporella* fl.

*Parthenium integrifolium* br.

*Anemone hepatica* br.

*Red valerian* br.

*Stipa spartea* fl.

*Ellisia repens* fl.

*Lechitis aspera* fl.



Dec. 11 + 12 1912

Dec. 11 RR. to Des Moines	\$ 2.41
Elliot Hotel	1.00
Supper	.35
Dec. 12 RR. to Audubon	2.16
Breakfast Cardis Castle Audubon	.35

July & Aug. 1913

July 29 RR. to Cedar Rapids	.50
July 30 Cedar R. to Spirit Lake	4.46
Spirit Lake to W. Chas. Co.	.10
Breakfast at Orleans	.50
Aug. 8 - Iowa - Mrs. Annie Maiden	6.00
Aug. 8 - Dinner, Supper & Lodging } Edwards	2.00
" 9 - Breakfast	.50
" 8 - Lodging - Supper - at Edwards	.10
" 9 - RR. to Montgomery & Granite	1.65
" - RR. Montgomery & Granite	.36
" - RR. Granite & Sioux Falls	1.00
" - Lodging - Hotel Teton "	.30
" 10 - Breakfast "	.31
Aug 8 - Freight - Annie Maiden	.35
Exp. - S. D. - Mrs. A. A. H.	1.00
Freight - Iowa Library Com.	2.00
Wm. Zerkow - laundry	

Dec. 11 - Wed 1912  
Left Iowa City at 3.08 pm. for Des Moines.  
Lectured on "What shall we do with  
our River Bluffs" before Horticulture  
Society. Spent night at Elliot.

Dec. 12, Thurs. 1912  
Left at about 4.30 pm - time about  
1 hr late, & reached Atlantic too late  
for early train. Left Atlantic  
at 8.45 am. for Audubon.  
Low RR. cut 1/2 mile before reaching  
depot at Corah. Seem & be  
overgrown (now) miles above  
just S. of road 1/2 miles above  
Corah in a similar, rather  
deeper cut. (This is Audubon)

A mile farther on there seem  
to be a bench.  
Mayton looks fair for stopping  
place. Has no livery, but  
there is one at Exira.

Charted bluffs to Audubon.  
Out up at Park Hotel.  
Found Co. road - plug now  
in process of correction &  
will wait.



1 Hunted up Mayor Spencer.  
Went to hotel for dinner  
& then met Rev. Smith,  
the Baptist State Sec. for  
Rural Churches.

He introduced me to the  
Co. Supt., Minn.

Mr. Cousins (uncle of Bob & a  
native of Cedar Co.), to Mr.

Van, a lumber, Minn.

Mr. Van, the father in general  
merchandise, former a barber,

Dr. May, an old I grew,

& on S. of Park,  
also dentist.

Mr. Smith was ordained  
here & also married.

Before dinner I called on  
Mr. Com. J. Laubender city  
clerk, who promises to get  
well record.

Afternoon hunted up

Mr. Henry Newman in  
charge of well drill, & Mr.

R. Locke, his asst.

They represent the  
J. P. Miller Artesian Well Co.  
Chicago.

Obtained following record:

Soil at top  
at 33 ft. 4 1/5 ft. of sand  
at 500 ft. 2 ft. of dark  
stuff like coal.

Below 500 ft. to 1140 -

Shale.

From 1140 - 2000 limestone

streaked with belts of  
shale 2-5 ft. wide.

Limestone is gray & white  
mixed.

Water mostly at 1425,

Then 50 ft. of green shale,

Then 55 ft. of gray sandstone

They call it St. Peter's

Took samples of last  
at 10-15 ft. and

25-30 ft.

Well is on flat top CRJ & P  
deposit.



There is a bridge on flat  
near depot, used to be  
in cluffs on opp. side.

Mr. O.H. Jacobson, rep. West  
from Audubon, owns a  
brick yard near Kimbalton.

Mr. Newman & his  
crew drilled the Dunlap  
well, - 1550 ft

Left at 4:30 for

Atlanta.

Met Dr. Hachemul and  
of Des Moines, but formerly  
of Audubon, & traveled  
with him to Des M.

On up part of road  
localities of trees come  
in, they run a little  
west of road - as a border.  
In this lower part the  
beach & dunes are flat

There is a draw toward the  
S.W., yet there are low oak  
trees - nothing else.

Farther northward oaks come  
in & trees are denser &  
more varied.

Northward some of the tree oaks  
are large - <sup>24</sup> 18 in. in diam.  
All the trees in the lower  
part of zone are tree oaks.

In Pocahontas Pt. zone:

Tree oak Quercus

Green ash Fraxinus

White oak

White birch (see spec.)

Loblolly pine

Yew albino

Shrub oaks

Circaea lutetiana

Sanicula umbellata

Pilea pumila Parietaria pennsylvanica

Chimaphila hybridum

Impatiens aquatilis

Massonia (few) Ilia

Prunella americana

Ostrya (few)

Crataegus (no. III)

Mullis

James H. Hachemul  
Des Moines  
July 31, 1913

17-  
9-8



westward the bank rises  
out again & only birches  
appear - straggling -  
the upper part of grove  
is mostly green ash.

Many weeds in this grove.  
The west end of grove  
is not sheltered, & is like  
S. end, - all scattered  
birches.

Level of lake 745  
" of bottom low 763, 19 37  
" top of ridge 782

The birches on W. side  
show lichen again on  
W. side of trunk.

The ridge is here  
protective.

Northward a fence along shore  
is all there is.  
In it are:

Birch, Quercus macrocarpa, Salix amygdaloides  
Salix discolor  
Vitis vulpina  
Ammophila prostrata  
Green ash, Fraxinus  
Alder, Alnus  
Hazel, Corylus am.  
Am. Elm, Prunus am.  
Amen. Elm  
Chokeberry - Prunus nig.  
Winter sweet - Celastrus  
Red Elm, Ulmus ruber  
Cottonwood - Populus  
Ribes floridum  
Salix longicarpa

16

Smaller plants are nearly  
all prairie. - (this is open  
& sandy, loess)

Prairie plants  
Syrphium angustifolium  
Lepachys pumila  
Helianthus scaberrimus  
Monarda mollis  
Silene stellata  
Pyrola asarifolia  
Artemisia ludoviciana  
Elymus canadensis  
Polypogon monspeliensis (small)  
Artemisia (fine) racemosa  
Verbena stricta  
Desmodium canadense

8.



On sandy bank saw same  
~~sporobolus~~ crypt.  
 also! ~~grass~~ at Zenoan Pond  
 Potentilla, pentstemon  
 Hordeum jubatum  
 Scutellaria (see spec) 1,  
 Polygonum persicaria  
 Artemisia (fine dracunculoid)  
 Polypodium  
 Munkianthus (see spec)  
 Agrostis tenuis (1 tuft)  
 Verbena hastata  
 Cyperus (small) (see spec)  
 Anaphalis forsteri  
 Xanthoxylum  
 Oenothera biennis  
 Lycopodium (not deeply cut)  
 Lactuca canadensis  
 Asclepias incarnata  
 Helianthus grosseserratus (clump)  
 Polygonum (with slender  
 white & brown leaves)  
 (see spec)  
 Red clover  
 Nasturtium palestinense  
 Anemone arvensis, bluish  
 Tribulus  
 Astragalus canadensis  
 Eupatorium perfoliatum  
 Iris versicolor  
 Solidago canadensis  
 Menyanthes  
 Salsola (see spec)

Just N. of slough entrance  
 a higher bank protects a  
 little grove of birches &  
 boulders are 15-18 ft.  
 all along is a fringe of  
 trees

On E. side of slough a rather  
 abrupt slope protects a  
 fringe of trees - birch &  
 green ash

N. of rec. line on W. side  
 Emerson's Bay there is  
 a bank for some distance  
 but only a fringe of trees  
 has developed. As the  
 bank fades out the trees  
 disappear entirely.  
 The timber point on N.  
 side also shows bank on  
 S & West.



In afternoon started N.  
from Lake

Took readings of Barts  
Station N. of Miller's Bay

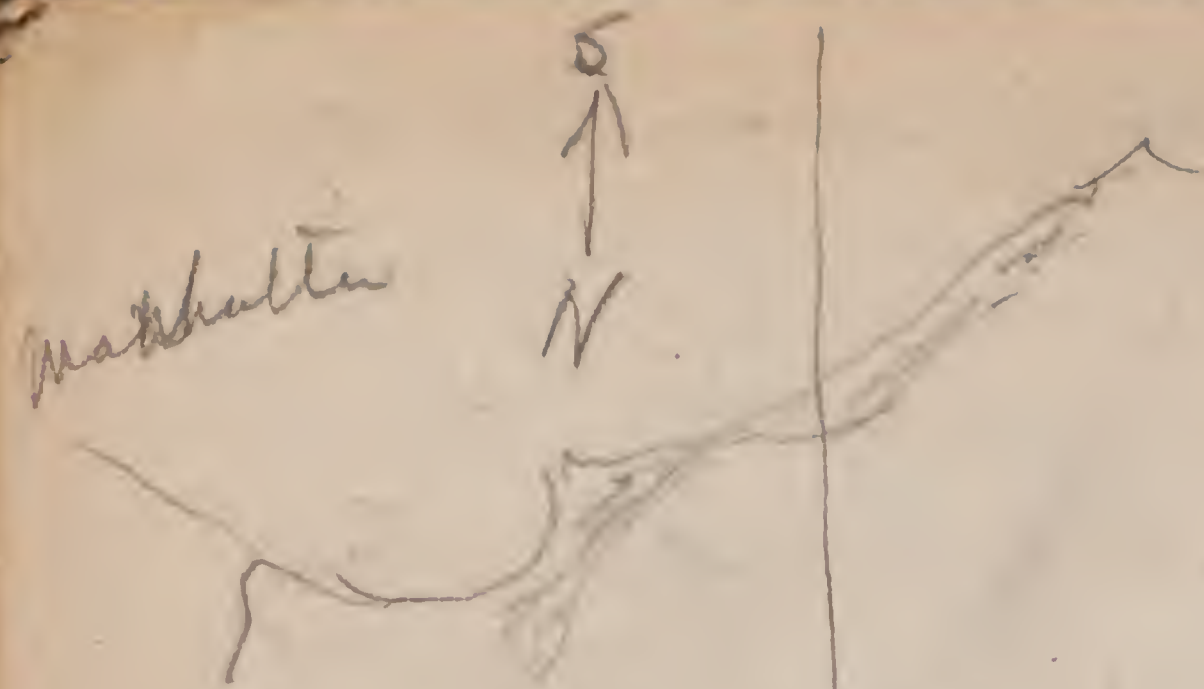
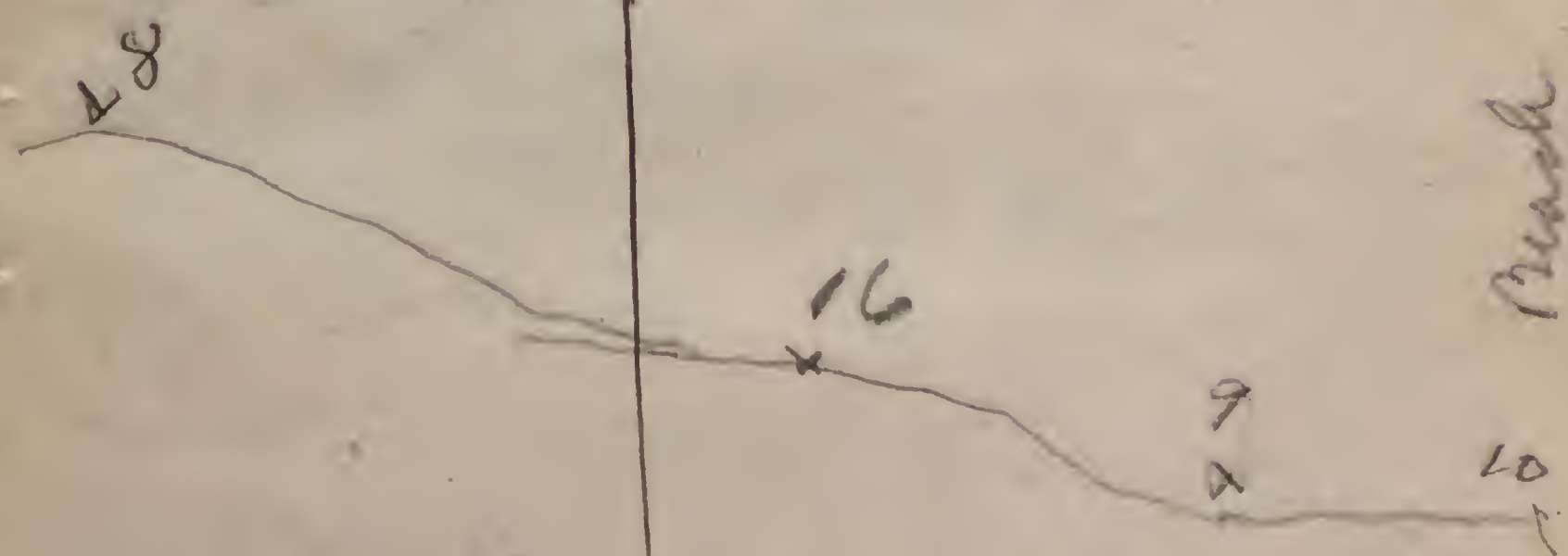
no. 10 on beach = 769

" 9 - behind by = 770

" 16 - part way up = 780

" 8 - hill top = 820

" 7 - gravelly ridge = 811.  
E. of 8. =



The timber along the  
shore SW. of Manhattan  
is a mere fringe. The  
banks are high (15-20 ft.)  
but only outlying burr oaks  
extend back westward.  
Along this fringe I noticed  
a basswood, an Amelanchier,  
a few Green ash & mostly  
bur oaks, a few Ar. elm.

The fringe runs out  
westward by a line of  
a few straggling stunted  
bur oaks.

Right at Manhattan the  
bur oaks run west a little  
farther, so that whole point  
is covered.



The Manhattan point is  
 now (& probably always was)  
 scantily covered with birches.  
 The fringe up the lake is  
 narrow & mostly brush.  
 A few green ash, some  
 quaking asp, *Salix amygdaloides*.  
 Sittimwood,  
 at first point above  
 Manhattan the grove  
 rises to take in point, but  
 consists almost entirely of  
 birches.

At this first point above  
 Manhattan the bank  
 runs 10-12 ft above  
 lake & is abrupt all  
 along.

Above this point there are  
 a good many rather fine  
*Populus tremuloides*, with  
 large number of seedlings  
 springing up.

In the fringe I found -

*Eglemaria* &  
*Platanus glabra*.  
*Ostrya virginiana*  
~~Rhus~~ *Filix mas*.  
*Amelanchier*  
*Prunus americana*  
*Cornus rugosula* (2) (*lomentaria* like)  
*Ribes gracile*  
*Choke cherry* *Prunus virg*  
*Amygdalus* *Prunella*  
*Red elm* (few) *Ulmus fulvus*  
*Amelanchier* *Prunella*

In woods: (wider part of fringe above  
 the first point above Manhattan)

*Viburnum*  
*Silene alba*  
*Solidago canadensis*  
*Symphoricarpos occidentalis*  
*Aster Drummondii*  
*Rubus occidentalis*  
*Ribes glabrum*  
*Thalictrum purpureum*  
 " *divi-divi*  
*Tanacetum montanum*  
*Nasturtium*  
*Eupatorium ageratum*  
*Morone* (almost smooth)  
*Polygonum virginicum*



Just above bottling works is  
most open place.

From steamer:

Two open places show  
between Manahatta & Eggharve  
both of them low, sloping  
gradually to lake.

The opening at the bottling  
works of Eggharve shows  
in same manner -

also another at upper part  
of the curve of shore line  
to next point above.

Then above this point &  
its great artificial grove  
is a low marshy place,  
also trees.

Took Queen to head of  
lake, slipped plant  
press & started towards  
Eggharve.

There are no trees (native)  
at N. end. The shore is  
flat & sandy, & very low  
main knob N. of road.

There are now some willows  
& cottonwoods, probably planted,  
(quite evidently so) -

There is a large artificial  
grove N.W. of head of lake.  
The cottonwood W. of landing  
are in row along road (with  
exception) & the willows  
& of lagoon are in a row,  
with one cottonwood in same  
row.

The N.W. grove has  
box elder, green ash,  
W. maple, <sup>red cedar</sup> small  
walnuts, etc. Along bank  
a group of cottonwoods  
small ~~it~~ are near  
shore - evidently came  
in irregularly & later  
also some low green ash.



above 12 ft. above Manhattan  
the bur oak grove wide &  
nearly 100 yds, & most  
of plants on heavily base  
were in this grove - rather  
open.

At westernmost part of  
curve between Eggleston  
& Manhattan the banks  
are lower & trees very  
scant.

This is only a depression & again  
the banks come up 15-20 ft  
& there is a narrow border of  
trees, only below bank.

Toward Eggleston this  
widens in 2 or 3 places where  
ravines run down.

Alt. of beach at	
Eggleston	765
Top of bluff	785

At Eggleston the  
grove widens across  
the point & contains  
a big bur oak (nearly  
3 ft in diam - Best  
photograph it.)

At Eggleston point  
the grove must be at  
least 150 yds wide.  
also from two highbridges  
the grove runs northward  
to bottleing works. The banks  
drop to 5-7 ft. A few  
large oaks appear.

There are artificial groves  
one west of point toward  
bottleing works & some  
5 or 8 ft.

Above the bottleing works  
the grove runs out into  
a more fringe along shore  
The shores are low.



These green ash are  
near beach, exposed to  
wind, & are situated

Right at N.W. corner of  
lake there is a bank  
(short) 10-15 ft - but  
it has no trees, plants  
a little to S.W.

at (a) there is a border  
fringe of green ash, cottonwood  
black willow, Am. elm (V), plum, <sup>Am. poplar</sup>  
probably to the fact that  
it faces long stretch of  
lake.

That bare bank goes  
somewhat to S.W. & is  
parallel to wind course.

A draw appears S.W.

The fringe of trees at (a)  
is on an elevated ridge  
evidently formed by  
lake. There is a  
small swamp west of  
this ridge.

some of these trees are dead  
at top - <sup>are along</sup> ~~green ash~~ willow.

at (b) there is a <sup>short (80 ft)</sup> ~~short~~ cut  
off abruptly by lake, making  
bank 15 ft high a  
cottonwood grows back of it.

The shore line below has  
scarcely straggling small  
trees (few) being in line  
with a draw to S.W.  
a cottonwood also stands  
in this at lower end,  
but is doing fairly  
well.

above (b) & above head of  
lake the beach is sandy,  
from (b) down it is very  
bouldery.

Below (b) is a <sup>short</sup> ~~rag~~ with  
some brush, & then a  
higher irregular bank  
runs along with larger  
trees (mostly cottonwood) below  
edge of bluff.



Along this border to  
Agulhane I found:

Salix amygdaloides  
cottonwood, Populus delt.  
Salix longicarpa  
Amorpha fruticosa  
Plum Prunus. com.  
my oak (var) Quercus macrocarpa  
Red elm, Ulmus fulva  
choke cherry Prunus virginiana  
Persimmon Rhus typhina  
Hackberry Celtis occidentalis  
Hickory Carya ovata.

An attempt to grow boxelder  
& quercus without wind break  
on plain just W. of lake (to  
lake) is not very successful.

N. of sec. line a group of  
cottages on bank 20  
ft high, are protected  
by artificial grove, mostly  
of soft maple.

This is at Estherville beach.

Only a very few trees appear  
along this point, & the trees  
on valley have lichen  
chiefly on E side.

Below the elevated point on  
which Estherville beach  
is located (it is cut off to  
west by swamp & low draw)  
there is a big swamp  
(acorns, etc) & its shores are  
treeless except for 1 partly  
decid cottonwood.

There is a clump of cottonwoods  
(4 trees) below S. end of Estherville  
beach bank.

Opposite the acorns swamp  
there is a piece of sandy beach.  
Below the acorn swamp  
there is a big grove of  
cottonwoods W. of railroad  
near to river.

At (C) there is a small  
group of birch, reinforced  
by planted soft maple, etc.



The banks at & below  
(c) again rise somewhat

On E. side the soft  
maples have more lichens.  
The same is true of  
a huckberry (see lichen)  
This is Eagle Point

From another highway  
here

S & W, there is a  
big cottonwood grove.  
The cottonwoods near shore  
have many lichens on  
E. side. (see lichen)

Small cedars probably  
settled about by  
birds from old trees  
set out.

South of big cottonwoods is  
a grove of soft maples.  
No lichens - again

chiefly on S. side.

Just below grove the  
slope to lake is gentle  
& there is a low bank  
A little below, a short  
bluff, 18 ft(?) high  
is cut off by little ridge

Along here is more  
fringe of trees, although  
but a few straggling  
One cedar, often on  
slope above & below, -  
the latter especially.

A short distance below  
the bluffs are again  
higher & there is a  
dense fringe of trees  
with quite a grove on  
slope

At (d), the bluff is higher  
(<sup>lake</sup> 170  
near 800) & the  
trees only come to top of  
bluff & have lichens



on W side - here the  
exposed side, a thicket  
being on east.

The bluff runs, somewhat  
broken, to a point about

125 yds above the  
bottling works. It is  
fringed with trees &  
a couple of. *Quercus*  
grows run up on  
gentle slope below.  
The point makes (d).  
They are really two  
projections of the  
fringe.

In the space just  
above the bottling  
works there are  
only small shrubs  
columnar pines,  
the bank runs  
down & the slope

to S.W. is gentle  
there is an artificial  
grave, E. & W., 500 yds  
bottling works <sup>breakers</sup>  
This is <sup>very much</sup> *W. columbiana*  
of the *W. columbiana*  
S. of bottling works.

The *columnar* just south  
of the bottling works are  
about 2 ft. in diam.  
& the *columnar* trees,  
open to the N., are covered  
with lichens on the N.  
side, this time on light  
side again.



Aug. 1<sup>st</sup> 1913 (Fri.)

Went to head of W. Lake.  
Day fine & clear.

At N.E. "corner" of lake  
the banks begin to rise  
of a fringe of green ash,  
basswood, chokecherry, grape,  
Pleum, Am. elm, *Salix amygdaloides*,  
*Amorpha*, *Salix discolor*, *Ostrya*,  
a small birch on top.  
all else fringe below top.

Top of first short bluff 735  
water edge. 690

The fringe, along lower bank  
extends to opposite angle in  
road & south the grove  
widens abruptly.

a few straggling birch oaks appear  
in angle W. of angle of road.

Small birches E. of angle, exposed  
all around, have lichens all  
around trunks, - many on  
exposed roots of birch on bank



In the dense growth south  
I saw:

<i>Quercus macrocarpa</i> (dominant)	<i>Rosa blanda</i>
<i>Corylus mollis</i>	<i>Ribes gracile</i>
<i>Rhus glabra</i>	<i>A. ulmifolia</i> am.
<i>Ostrya virginica</i>	<i>Salix amygdaloides</i>
<i>Symphoricarpos racemosa</i>	<i>Ambrosia</i>
<i>Delostomatus scutellarius</i>	<i>Ribes floridum</i>
<i>Prunella pennsylvanica</i> am.	<i>Aster dumosus</i>
<del><i>Prunella virginica</i></del>	<i>Lonicera mackenzii</i>
<i>Chokeberry</i> <i>Prunella virginica</i>	<i>Agrostis</i>
<i>Crataegus marshallii</i> (one spec)	<i>Caryophyllus</i> (common)
<i>Prunella virginica</i> am.	<i>Rubus</i> <i>Prunella</i> <i>fulva</i>
<i>Rubus celticus</i> etc.	<i>Populus tremuloides</i>
<i>Hamamelis lanata</i>	<i>Campylopus americanus</i>
<i>Vitis vulpina</i>	<i>Eriogonum</i> <i>astrifolium</i>
<i>Asplenium angustatum</i>	<i>Oxycoccus</i> (bulb)
<i>Geranium virginicum</i>	<i>Lappula virginica</i>
<i>Rosaceae</i> <i>virginica</i>	<i>Smilax hispida</i>
<i>Desmodium grandiflorum</i>	<i>Pedicularis</i>
<i>Rhus toxicaria</i>	<i>Phryma</i>
<i>Ruscus hirsutus</i>	<i>Thalictrum divaricatum</i>
<i>Silene hibernica</i>	<i>Valeriana lentago</i>
<i>Asplenium angustatum</i>	<i>Cryptotaenia</i>
<i>Desmodium grandiflorum</i>	<i>Elymus striatus</i>
<i>Chenopodium hybridum</i>	<i>Cirsium altissimum</i>
<i>Gymnocladus dioica</i> (small)	<i>Amelanchier</i> <i>canadensis</i>
<i>Calceolaria</i> <i>canadensis</i>	<i>Amelanchier</i> <i>canadensis</i> (climber)
<i>Amelanchier</i> (smooth)	

Took lichens from *Prunella*  
& *chokeberry* on shore at  
N. edge of woods (Lichens  
all around) See spec.

The banks to 1<sup>st</sup> pt. S. are  
broken, 12-18 ft high.

Took lichens from *Salix*  
*amygdaloides* on shore -

Lichens all around

In upper end of grove, on banks  
of ravine, picked up shells in  
box 1. at (f) -

about 150 yds S. of road the  
E. edge of timber, here nearly N. & S.  
is about 200 yds from lake  
shore (above 1<sup>st</sup> point)

The greater part (or about 1/2) of  
east bank is brush, with a  
few gnawing asp. The

smaller plants in this  
part are nearly all  
prairie plants,

along line in sand

the distance from E. edge of  
grove to lake = 190 yds.



The timbered part in sec. 1 is rather broken by cross ravine, running E.

In sec. 1. The part of grove on upland is everywhere practically bur oak & on 1/2 sec. line it runs more or less open, to lake bank, this 8-10 ft. high. Below the bank is a varied mixture

this extends S. of 1/2 sec. line.

Among these trees are:

*Desmodium canadense*

*Artemisia* (vine)

*Humulus mollis*

*Aster exiguus*

*Aster exiguus*

*Zizia aurea*

*Sisymbrium - yellow*

*Galium ludovicianum*

*Helianthus scaberrimus*

*Symphoricarpos occidentalis*

*Solidago canadensis*

*Rhus glabra* (small)

*Urtica dioica*

*Schizanthus pinnatus*

*Elymus canadensis*

Artemisia canadensis

Sisymbrium - yellow  
Galium ludovicianum  
Helianthus scaberrimus  
Symphoricarpos occidentalis  
Solidago canadensis  
Rhus glabra (small)  
Urtica dioica  
Schizanthus pinnatus  
Elymus canadensis

Hard maple near bank

99-57

Bank

Saw locust tree  
(bur oak)  
a little below  
1/2 sec. line



Sec 1

Kettle

Kettle

Among these prairie plants were found:

*Lappula virginica*

*Agrium eupatorioides*

*Agrium canadense*

*Geranium album*

*Aster multiflorus*

Opposite h the grove runs back only 45 yds to kettle hole, & then runs narrow about to 1/4 1/4 line S.

h is a locust tree,  $\frac{769}{682} = 1.127$  ft.

All this narrow part is open upland bur oak woods



It seems to be nearly opposite  
(a little N) of Extonville beach.

It forms a short abrupt headland.

The woods a little below almost  
peter out, & then widen abruptly.

On S. line of sec. 1 there is  
a fine group of bur oaks  
over 2 ft. in diam.

Along the sec. line the edge  
of grove is 300 yds from lake.

The Yacht Club point is just  
N. of sec. line & it seems to  
strike Eagle Pt.

The Greek temple is just  
below section line on bluff

680 to 710 = 30 ft high.

Gymnocladus is near this &  
may have been introduced.

Young seedlings & appear "introduced"

Point (i) is Yacht Club point

& is above sec. line a little

From this point to Greek temple

shore is rather low but

rises more or less rapidly back

from S + SW. the Greek temple  
ridge is a protection.

On ridge scant scatter red  
clms are chief on <sup>N.</sup> west,

top is bare.

This is a ~~short~~ bluff which  
runs with some interruptions  
almost to point j. where it  
drops some, dropping a little  
just below Greek temple.

about 1/2 way between i & j  
the timber narrows to about  
100 yds & is open ground.

all along where deeper  
ravines come down, the  
forest is dense.

The tops are more  
xerophytic & either have  
scatter bur oak (open)  
or in spots are prairie.

j is just below 1/4 "4 line  
in sec. 12.

Several of these small openings occur  
below Greek temple (in 1/2 mile)

2 saw Andropogon scoparius  
Desmodium canadense  
Sclerolobus pennsylvanicus



Hand-drawn map of a lake area. The map shows a lake with a small island or peninsula. Labels include "Lake", "100 yds", "163", "40 yds", "D. road", "East of Little hole", "sec. 1", "sec. line", and "sec. 12".

Sec. 1,

see, line

-sec. 12

~~Solidago rigida  
Aster canadensis  
Aster exiguus  
Solidago missouriensis  
Andromeda artemisiifolia  
Artemisia (sp.)  
Elymus canadensis  
Amorpha canescens  
Carex festucacea~~

To a little below of  
the first narrow to less  
than 100 yds. & then  
abruptly widens  
this just above middle line  
of section 12  
The high points at the etc.  
are 20 ft (plus). The  
below the town the  
shore drops down a little  
lower, but banks still  
abrupt  
along the section first runs  
back 130 yds from shore  
& just below that widens to  
nearly 100 yd more.  
Below the banks are  
12 to 20 ft high & there is  
a narrow belt of low oak  
above bank  
Below bank there is  
little. There low oak  
face to SW & are  
the fortifiers of the  
first further north.



The "walled fortress" just  
above Haywards Bay is  
about finished.

The whole shore to Haywards  
is bouldery.

At Haywards sandy beach.  
Southward toward Haywards  
the belt runs 100 yds or so  
& is mostly young dense  
brush, - a few old  
trees only appearing.

(Would this suggest  
extension under man's  
protection?)

The grove runs out  
just N. of head of  
Haywards Bay &  
the bank runs down.

At head the shores  
are low & slope  
back very gently.  
The head is practically  
level,

Below Haywards the trees  
start in again in straggly  
fashion & the banks grow  
higher.

Saw the *Sparganium angustifolium* of  
Tenn. just at Haywards  
on the sandy beach.

Dune below extends out  
to road, & a little beyond.

---

Trip to Center Lake.

At A there is an abrupt  
bank on W. side of slough.  
There is quite a row, mostly  
brush.

The timber runs 350 yds  
S of SW. part of Center Lake  
for plants in woods  
see next page.







is the same everywhere along  
the lake.

Now oak irregular groves  
appear on N. shore & give

a grove N.E. This is one  
that I have not seen

S.E. side of lake shore boulders  
+ gravel ridge - ice-shore  
Stork stand on this in woods  
from N.W. to back off bays  
a place nearly in woods  
with dead trees - tramped  
by cattle.

Collected shells under  
water log (barrow)

also shrimps.

Along road in nos 17 & 18

There are boulders & ridges, &  
little holes in the wooded  
part.

Returned to lake below  
Hayward's Bay.

In the S.W. by of S.W. of 18  
the banks are about  
10-15 ft high. All wood

between m & n there are  
higher banks, cuts of ridges,  
& all along the banks are  
abrupt & beach covering  
also timbered all along.

In places over 20 ft high.

712-756

Along here the country is  
quite rough & highest bank  
(bank) measured about 44 ft  
above water. Then rise  
eastward.

At (n) highest point - 762

Drops just S. to 740

Runs along so far some distance  
and some then to here

~~then drops abruptly~~  
Water level 714

Just below the dam the  
bank became a little lower  
& tree strip narrower. Much  
mud & pebbly.



The roughest part is just  
above Iona & this also has  
heaviest forest.

Toward Ft. Dodge Pt. - no. 5.  
The banks are high & abrupt  
& beach boulders.  
Banks all timbered.  
The woods E. of Iona are  
fine, mixed timber, mostly  
Oak.

Took fine lichen from  
boulder.

1<sup>st</sup> bottleneck E. of Iona  
has no water in it. Took moss

Second has a round big  
pond at N. end, & then  
a low place extends S.  
The pond has fringe of willow  
on S. side & another  
on W. side of lower low ground

At Oshkosh 780 - top of hill level  
725 - water  
55

Along W. side of Iona Lake (2nd)  
The trees are mostly birch & aspen -  
some green ash & some  
barnwood - others, scattering

On W. side of middle gap is  
a flat shore to lake - &  
slope back long & smooth,  
& no trees.

The banks on E. side of  
middle gap are abrupt  
& quite high - uneven.

There on W. side are high  
with interruption, - and there  
is a higher ridge west & S.W.  
See map for open place.

Again where banks = boulders  
where flat & sand.

Along flat on W. side of  
Lower gap only a few  
straggling willows & cottonwood



A high bluff near W. of  
Lower Gun Lake & here found  
is good. The outcrops are  
low and this is everywhere  
the doming series excepting  
on lower part of middle  
gun where the green  
ark is abundant.

Level of Lake = 730

Top of bluff W. of

Lower Gun = 771.

The latter is a bouldery  
knob lower than hills  
west & south & pitching  
abruptly to lake.

Upper part of zone  
is fringed with sand.

The zone W. of knob is  
low & rises to hills.

N. & NW slope of lower  
gun is flat & treeless.

The lower hills near  
upper part of west side

of middle gun are  
about 
$$\begin{array}{r} 753 \\ 230 \\ \hline 723 \end{array}$$

Still more — 15-18  
ft. high

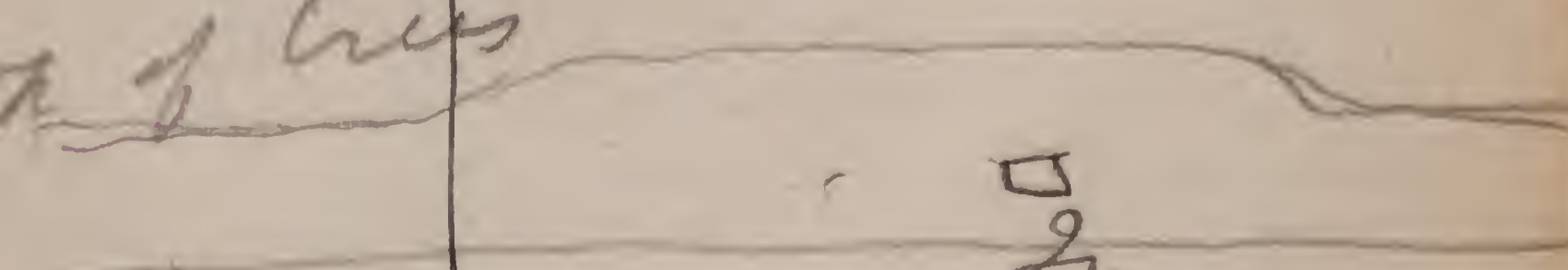
Top of high ridge N.W.  
= 
$$\begin{array}{r} 775 \\ 230 \\ \hline 45 \end{array}$$

West of upper end,

RR = 755 at road  
intersection.

From lake a profile  
of the gun

Top of trees

  
The upper line shows  
top of trees; the  
ground near gun is  
higher.



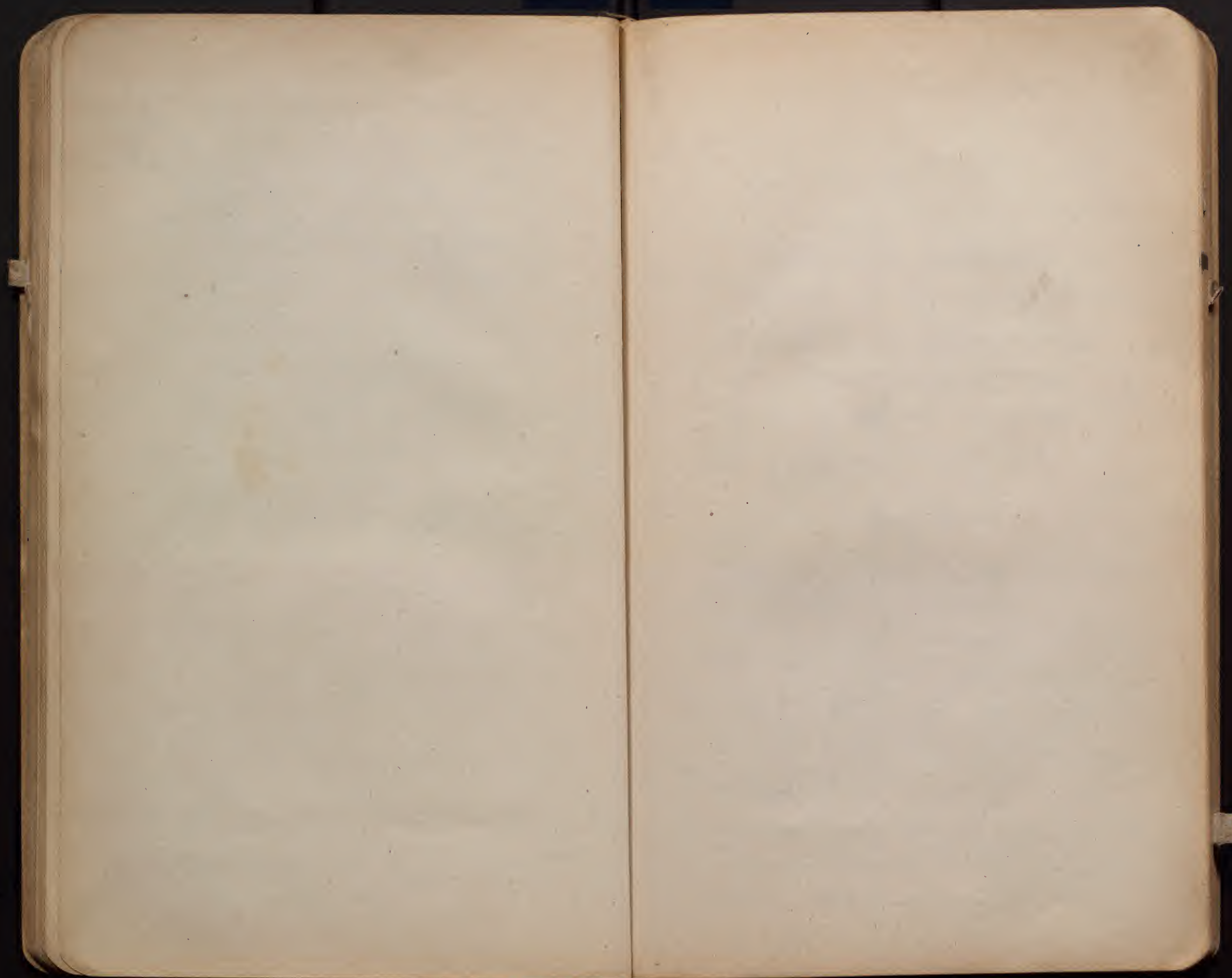
# Record of trips 1913

W. side E. Lake -	July 30 -	9 <sup>1</sup> / <sub>4</sub> mi.
Arnold's Park to head -	" 31 -	15 <sup>1</sup> / <sub>2</sub> "
E. side W. Okoboji -	Aug. 1 -	14 <sup>1</sup> / <sub>2</sub> + 8
Elm crest -	" 2	4
E. Lake - E. side -	" 3 -	14 + 6
W. side Spirit Lake -	" 4 -	17 <sup>1</sup> / <sub>2</sub> + 3
N. & E. " " "	" 5 -	14 <sup>1</sup> / <sub>2</sub> +
		<hr/>
		59 <sup>1</sup> / <sub>2</sub>
		12
		<hr/>
		106 <sup>1</sup> / <sub>2</sub>



Went to Mangrove bricket  
and found high level of blue  
even - many nodules in layers  
& tubes in plenty  
a few shells scattered  
through.







To look, show blue

with many in holes.

occasionally 2 or 3 (1)

often but no known in

right.

Near S.W. cor. 24 & 23

81-89 - along road, which was

along northern slope, well below

top of rock, some 1 or 2

in small known.

Collected at number

in hole deeper

at little north in

see. 23 in which

is almost barren.

yellow or reddish

black - fragments?

the sample.

The more is right in fact.

The other more, 20. 1

which is more at top.

not just 1 specimen -

some this

There is a row of three

in the long line, on 3. note,

broken from west, probably

20-30 ft above

bottom.

There is a row

of specimens known, which

the fact, there are some

specimen known.

On 5. note of fact are

some 1 or 2, I would

be sure from near top of

slope & more yellow from

on top.

N. note also about 100 ft from

bottom - from top?

At center of 1. note fact.

6-80-84 - on hill facing N.

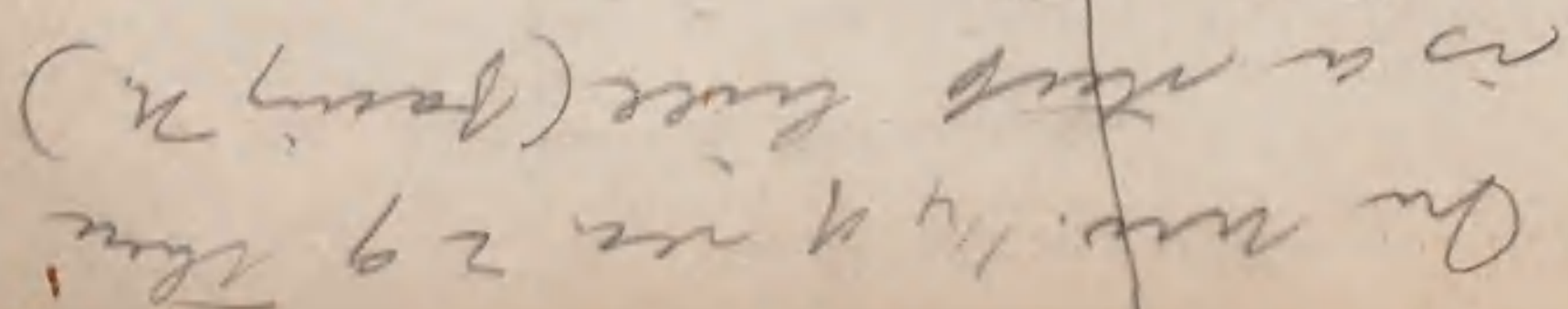
system from above on top, with

many small nodules. The

small part of the slope, about



Toward river bottom den always.  
and the road was very good.  
over Hardin farm a patch of  
very low *Quercus* *virginica*.





20 June  
Vik  
Prudent  
Prudent

The mountain peak was  
found just about where  
1<sup>st</sup> December last N.Y.

A. line of 3. note 4 cut 5  
along C. to W. run  
detour (5.5)

Q cut in  
the system, or S. facing side,  
about 6-7 ft deep & only down 2 or 3

write the other hand (south hand)

with thick bark - no resin in  
young parts of the tree from  
young bark of white, & of yellow from  
1/2 way up & in some cases about  
1 ft. below top of bark.  
On N. side - at corner with  
American section shown gray  
green at base, yellow above.  
These wooden parts are yellow  
from carbon with this part,  
to form middle line of No. 8. is  
rough, brown with blue marks



*Hyphomycetes*  
*Gillettea*  
*Myxococcus*  
*Colletia*  
*Xanthomonas*  
*Aspergillus*  
*Penicillium*  
*Phytophthora*



on turning plants and in  
pleasant memory.

1891  
 1892  
 1893  
 1894  
 1895  
 1896  
 1897  
 1898  
 1899  
 1900  
 1901  
 1902  
 1903  
 1904  
 1905  
 1906  
 1907  
 1908  
 1909  
 1910  
 1911  
 1912  
 1913  
 1914  
 1915  
 1916  
 1917  
 1918  
 1919  
 1920  
 1921  
 1922  
 1923  
 1924  
 1925  
 1926  
 1927  
 1928  
 1929  
 1930  
 1931  
 1932  
 1933  
 1934  
 1935  
 1936  
 1937  
 1938  
 1939  
 1940  
 1941  
 1942  
 1943  
 1944  
 1945  
 1946  
 1947  
 1948  
 1949  
 1950  
 1951  
 1952  
 1953  
 1954  
 1955  
 1956  
 1957  
 1958  
 1959  
 1960  
 1961  
 1962  
 1963  
 1964  
 1965  
 1966  
 1967  
 1968  
 1969  
 1970  
 1971  
 1972  
 1973  
 1974  
 1975  
 1976  
 1977  
 1978  
 1979  
 1980  
 1981  
 1982  
 1983  
 1984  
 1985  
 1986  
 1987  
 1988  
 1989  
 1990  
 1991  
 1992  
 1993  
 1994  
 1995  
 1996  
 1997  
 1998  
 1999  
 2000  
 2001  
 2002  
 2003  
 2004  
 2005  
 2006  
 2007  
 2008  
 2009  
 2010  
 2011  
 2012  
 2013  
 2014  
 2015  
 2016  
 2017  
 2018  
 2019  
 2020  
 2021  
 2022  
 2023  
 2024  
 2025  
 2026  
 2027  
 2028  
 2029  
 2030  
 2031  
 2032  
 2033  
 2034  
 2035  
 2036  
 2037  
 2038  
 2039  
 2040  
 2041  
 2042  
 2043  
 2044  
 2045  
 2046  
 2047  
 2048  
 2049  
 2050  
 2051  
 2052  
 2053  
 2054  
 2055  
 2056  
 2057  
 2058  
 2059  
 2060  
 2061  
 2062  
 2063  
 2064  
 2065  
 2066  
 2067  
 2068  
 2069  
 2070  
 2071  
 2072  
 2073  
 2074  
 2075  
 2076  
 2077  
 2078  
 2079  
 2080  
 2081  
 2082  
 2083  
 2084  
 2085  
 2086  
 2087  
 2088  
 2089  
 2090  
 2091  
 2092  
 2093  
 2094  
 2095  
 2096  
 2097  
 2098  
 2099  
 2100  
 2101  
 2102  
 2103  
 2104  
 2105  
 2106  
 2107  
 2108  
 2109  
 2110  
 2111  
 2112  
 2113  
 2114  
 2115  
 2116  
 2117  
 2118  
 2119  
 2120  
 2121  
 2122  
 2123  
 2124  
 2125  
 2126  
 2127  
 2128  
 2129  
 2130  
 2131  
 2132  
 2133  
 2134  
 2135  
 2136  
 2137  
 2138  
 2139  
 2140  
 2141  
 2142  
 2143  
 2144  
 2145  
 2146  
 2147  
 2148  
 2149  
 2150  
 2151  
 2152  
 2153  
 2154  
 2155  
 2156  
 2157  
 2158  
 2159  
 2160  
 2161  
 2162  
 2163  
 2164  
 2165  
 2166  
 2167  
 2168  
 2169  
 2170  
 2171  
 2172  
 2173  
 2174  
 2175  
 2176  
 2177  
 2178  
 2179  
 2180  
 2181  
 2182  
 2183  
 2184  
 2185  
 2186  
 2187  
 2188  
 2189  
 2190  
 2191  
 2192  
 2193  
 2194  
 2195  
 2196  
 2197  
 2198  
 2199  
 2200  
 2201  
 2202  
 2203  
 2204  
 2205  
 2206  
 2207  
 2208  
 2209  
 2210  
 2211  
 2212  
 2213  
 2214  
 2215  
 2216  
 2217  
 2218  
 2219  
 2220  
 2221  
 2222  
 2223  
 2224  
 2225  
 2226  
 2227  
 2228  
 2229  
 2230  
 2231  
 2232  
 2233  
 2234  
 2235  
 2236  
 2237  
 2238  
 2239  
 2240  
 2241  
 2242  
 2243  
 2244  
 2245  
 2246  
 2247  
 2248  
 2249  
 2250  
 2251  
 2252  
 2253  
 2254  
 2255  
 2256  
 2257  
 2258  
 2259  
 2260  
 2261  
 2262  
 2263  
 2264  
 2265  
 2266  
 2267  
 2268  
 2269  
 2270  
 2271  
 2272  
 2273  
 2274  
 2275  
 2276  
 2277  
 2278  
 2279  
 2280  
 2281  
 2282  
 2283  
 2284  
 2285  
 2286  
 2287  
 2288  
 2289  
 2290  
 2291  
 2292  
 2293  
 2294  
 2295  
 2296  
 2297  
 2298  
 2299  
 2300  
 2301  
 2302  
 2303  
 2304  
 2305  
 2306  
 2307  
 2308  
 2309  
 2310  
 2311  
 2312  
 2313  
 2314  
 2315  
 2316  
 2317  
 2318  
 2319  
 2320  
 2321  
 2322  
 2323  
 2324  
 2325  
 2326  
 2327  
 2328  
 2329  
 2330  
 2331  
 2332  
 2333  
 2334  
 2335  
 2336  
 2337  
 2338  
 2339  
 2340  
 2341  
 2342  
 2343  
 2344  
 2345



Arrived at the city the  
 afternoon of the 10th. There was  
 of the City that there was  
 me 6:10 pm. Train (11/19) came  
 in on it; and they  
 looked for me at the  
 church.  
 Took supper at Dr. Rogers  
 home, and Mr. Smith, &  
 in the next evening  
 looking for places from  
 George's program.  
 Rained a lot & in  
 wet & went back &  
 home at about 11.

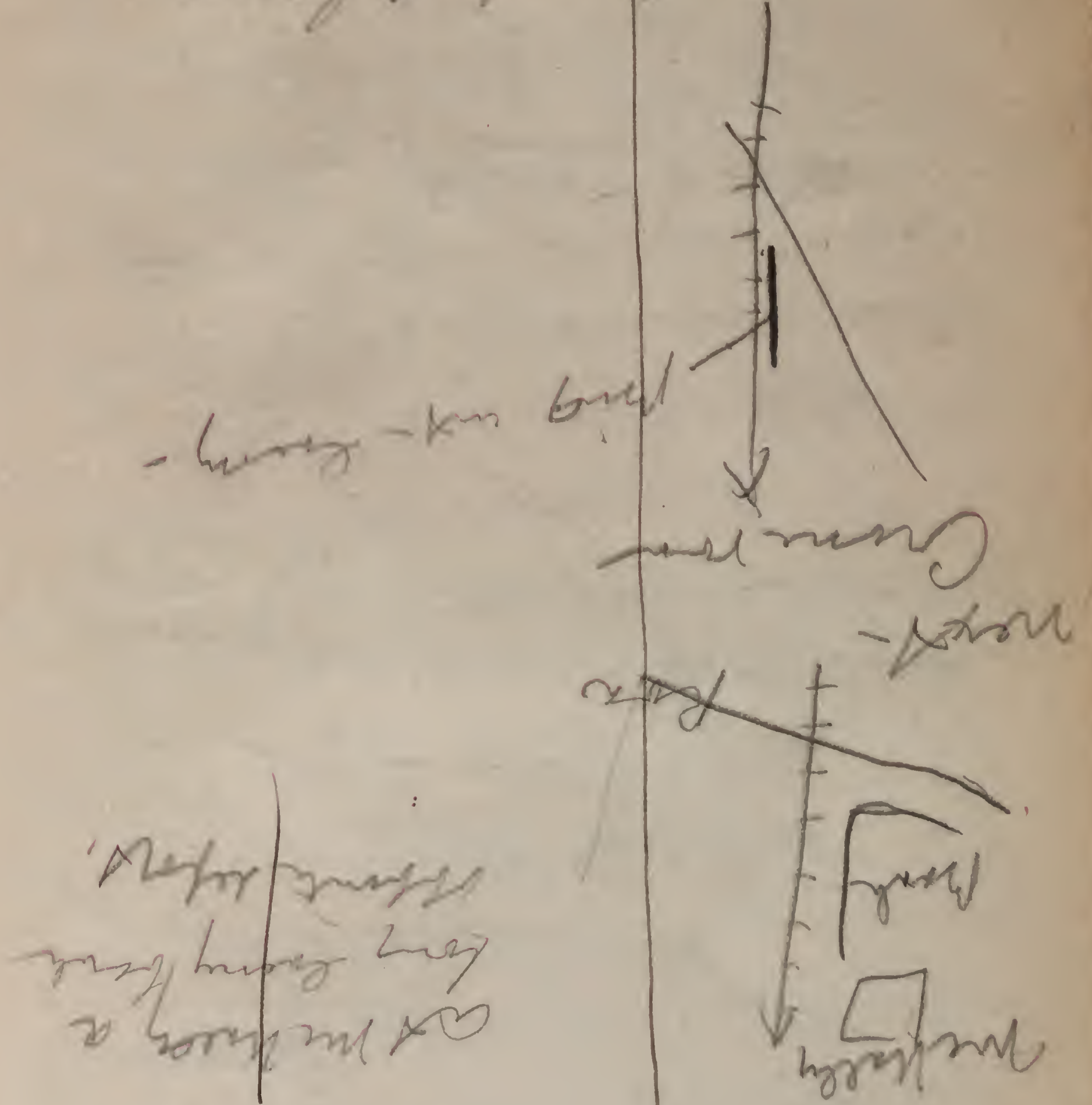
The leaves out in few mts  
 from Craig in RR. looking  
 after the RR. looking  
 a valley.

Reading from City at  
 6:10 pm near to West Hill  
 & there met Dr. Stephens  
 & the family, reading  
 the Army City, reading

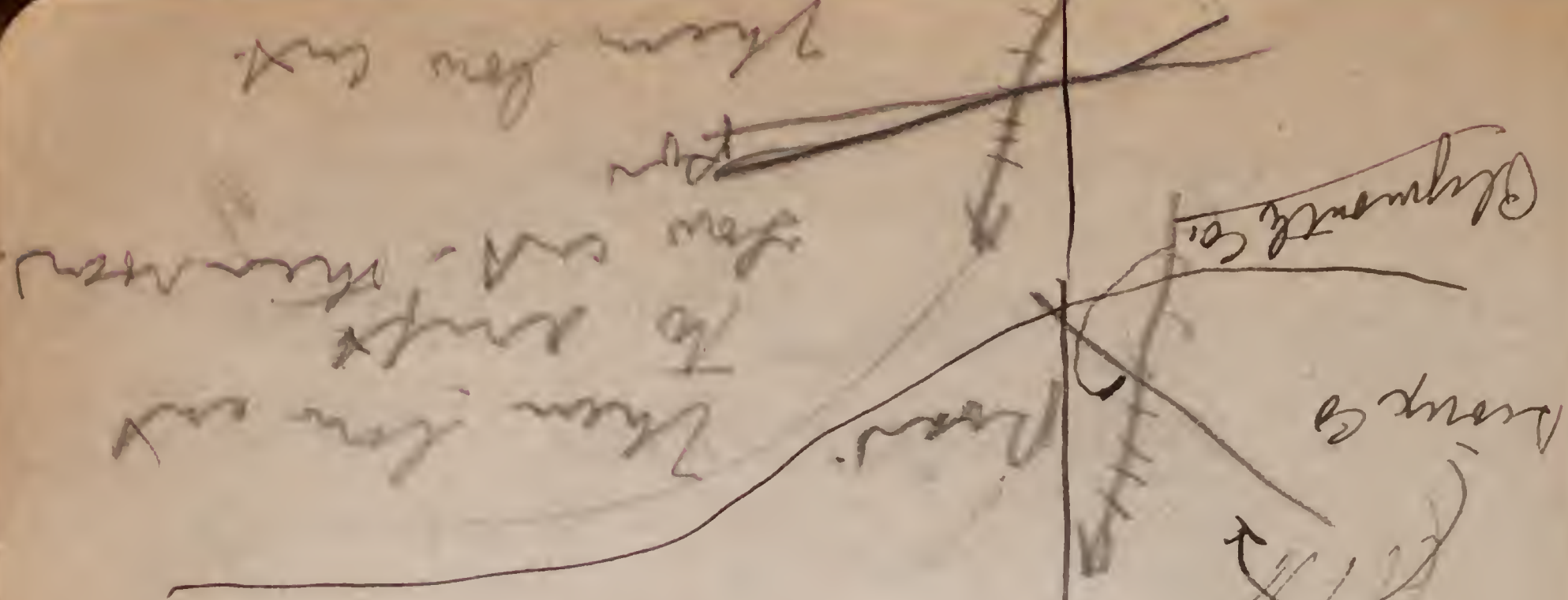
1. *Amphispiza bilineata*  
 2. *Amphispiza bilineata*  
 3. *Amphispiza bilineata*  
 4. *Amphispiza bilineata*  
 5. *Amphispiza bilineata*  
 6. *Amphispiza bilineata*  
 7. *Amphispiza bilineata*  
 8. *Amphispiza bilineata*  
 9. *Amphispiza bilineata*  
 10. *Amphispiza bilineata*  
 11. *Amphispiza bilineata*  
 12. *Amphispiza bilineata*  
 13. *Amphispiza bilineata*  
 14. *Amphispiza bilineata*  
 15. *Amphispiza bilineata*  
 16. *Amphispiza bilineata*  
 17. *Amphispiza bilineata*  
 18. *Amphispiza bilineata*  
 19. *Amphispiza bilineata*  
 20. *Amphispiza bilineata*  
 21. *Amphispiza bilineata*  
 22. *Amphispiza bilineata*  
 23. *Amphispiza bilineata*  
 24. *Amphispiza bilineata*  
 25. *Amphispiza bilineata*  
 26. *Amphispiza bilineata*  
 27. *Amphispiza bilineata*  
 28. *Amphispiza bilineata*  
 29. *Amphispiza bilineata*  
 30. *Amphispiza bilineata*  
 31. *Amphispiza bilineata*  
 32. *Amphispiza bilineata*  
 33. *Amphispiza bilineata*  
 34. *Amphispiza bilineata*  
 35. *Amphispiza bilineata*  
 36. *Amphispiza bilineata*  
 37. *Amphispiza bilineata*  
 38. *Amphispiza bilineata*  
 39. *Amphispiza bilineata*  
 40. *Amphispiza bilineata*  
 41. *Amphispiza bilineata*  
 42. *Amphispiza bilineata*  
 43. *Amphispiza bilineata*  
 44. *Amphispiza bilineata*  
 45. *Amphispiza bilineata*  
 46. *Amphispiza bilineata*  
 47. *Amphispiza bilineata*  
 48. *Amphispiza bilineata*  
 49. *Amphispiza bilineata*  
 50. *Amphispiza bilineata*  
 51. *Amphispiza bilineata*  
 52. *Amphispiza bilineata*  
 53. *Amphispiza bilineata*  
 54. *Amphispiza bilineata*  
 55. *Amphispiza bilineata*  
 56. *Amphispiza bilineata*  
 57. *Amphispiza bilineata*  
 58. *Amphispiza bilineata*  
 59. *Amphispiza bilineata*  
 60. *Amphispiza bilineata*  
 61. *Amphispiza bilineata*  
 62. *Amphispiza bilineata*  
 63. *Amphispiza bilineata*  
 64. *Amphispiza bilineata*  
 65. *Amphispiza bilineata*  
 66. *Amphispiza bilineata*  
 67. *Amphispiza bilineata*  
 68. *Amphispiza bilineata*  
 69. *Amphispiza bilineata*  
 70. *Amphispiza bilineata*  
 71. *Amphispiza bilineata*  
 72. *Amphispiza bilineata*  
 73. *Amphispiza bilineata*  
 74. *Amphispiza bilineata*  
 75. *Amphispiza bilineata*  
 76. *Amphispiza bilineata*  
 77. *Amphispiza bilineata*  
 78. *Amphispiza bilineata*  
 79. *Amphispiza bilineata*  
 80. *Amphispiza bilineata*  
 81. *Amphispiza bilineata*  
 82. *Amphispiza bilineata*  
 83. *Amphispiza bilineata*  
 84. *Amphispiza bilineata*  
 85. *Amphispiza bilineata*  
 86. *Amphispiza bilineata*  
 87. *Amphispiza bilineata*  
 88. *Amphispiza bilineata*  
 89. *Amphispiza bilineata*  
 90. *Amphispiza bilineata*  
 91. *Amphispiza bilineata*  
 92. *Amphispiza bilineata*  
 93. *Amphispiza bilineata*  
 94. *Amphispiza bilineata*  
 95. *Amphispiza bilineata*  
 96. *Amphispiza bilineata*  
 97. *Amphispiza bilineata*  
 98. *Amphispiza bilineata*  
 99. *Amphispiza bilineata*  
 100. *Amphispiza bilineata*



Another long day from here -  
at about 1/2 past 12



Then long and well  
into (upper line),  
leaving the point A  
to find looking over western  
(the line)



Country all the way surrounding  
Quartzite is not long  
facing it also - some brown  
Another long valley.  
Creek.

Long cut day facing above  
+ with layers - like Tullahoma  
= quite regular  
Another mountain long day a  
little more irregular, for  
the same  
with some  
creek.

Another long valley.  
Creek.



Arrived at 4:20 pm.  
 Took dinner at 5:30.  
 Saw Mark Stone,  
 and found been  
 enjoying himself. He  
 has been in the country  
 for about 3 miles up  
 the Stuyvesant. The  
 farm border the river.  
 A young man was  
 dinner just after dinner,  
 as I was alone & late  
 train his wife (with baby)  
 who was on a visit &  
 her parents, relatives. She  
 had been visiting that they  
 was working with him, but she  
 not know that he was dead.  
 Her name was something  
 when she found the truth.  
 Left at 4:20 pm. we  
 cut off line at C.M.W. for some  
 city.

Along the line I note  
 following only:  
 Carbons & Minerals on C.M.W.  
 After the long cut:  
 I cut your when doing RR  
 down (in the road)  
 long, when few cut  
 another, better, nearly  
 formation, and V with  
 rock (probably from there?)  
 Then even road  
 Another long cut, then  
 many miles from  
 few cut. Some are rising steeply  
 & that alone - with many  
 line of cut.



Day, 12/19/3 - Tues.  
 Exp. 1000 & 1000 to 1000  
 but living area was  
 back on in. It was  
 morning & not a little  
 day for fishing. gave  
 day for fishing. gave  
 it up and passed  
 and note below.  
 sent out pictures of  
 plants collected on  
 plants in Japan to a  
 a scientific journal  
 in about C.W. 1880 P.  
 knife about 1880 P.  
 left center at  
 10 am. and reached  
 at 18:45.  
 dinner at 18:45.  
 1880, Mr. & Mrs. Jack  
 Armstrong, & Mr. Stone  
 were at night.

822  
640  
182  
Spent in flat at Cotts

698 | 122 1/2

"4-700 - In bank.

2 last week  
from north.

13-728 - On file

2-820 in pencil

no 1873 in file

- good

$$= 1.00$$
$$= 2m$$

no. 3

4 are

155

= 2

7

222

may to 068  
788  
888  
(Lug) 906  
(Lug) 898

068

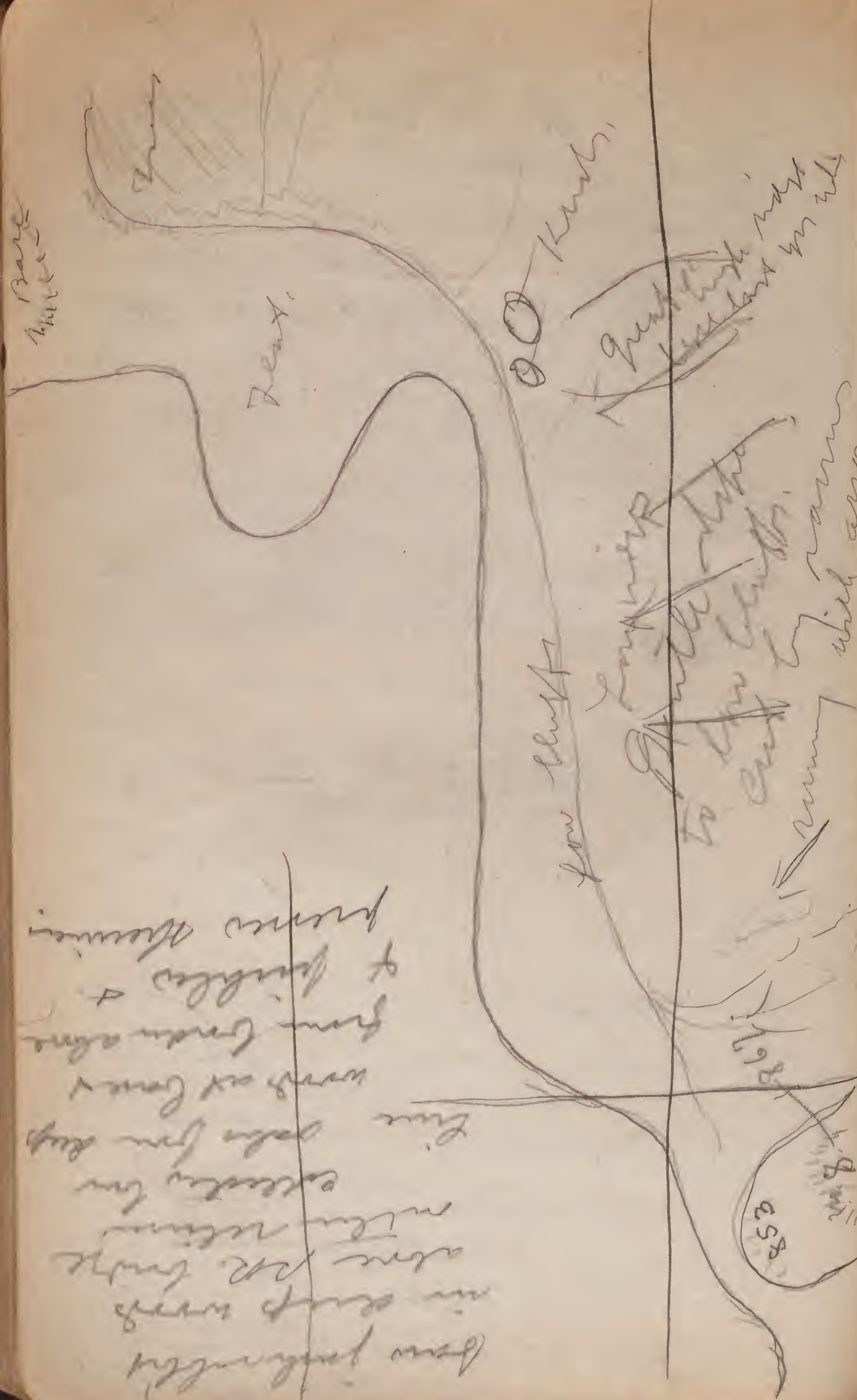
068

206

1890

\_\_\_\_\_





45

and, of course, many times  
 been covered, but  
 the reason for this is  
 at present on some maps 863  
 shown as 1, 2  
 Park of 7 (5) is a  
 fair way out.  
 (7) (8) there is  
 a way out by water  
 running many down  
 to the big street.  
 On the E. side of it is  
 the big, high ridge of  
 the mountain (a 200 ft. or so)  
 making  
 Photos 5 & 6 Looking  
 N.W. from near No. 7  
 Photo 10. Looking from N.  
 from the river 81  
 Photo 11 - looking N.W. from  
 the top of the mountain



On March 3, 1945

*[The page contains handwritten notes in cursive script, which are mostly illegible due to extreme fading and bleed-through from the reverse side. The text appears to be organized into several columns or sections, possibly representing a list or inventory.]*

Mean 14.5 (86.5 / 6)

many down hill very easy  
 go down with 6-8 in of dirt  
 this (side 4?) & down that  
 14 ft. of thin layer, strata  
 with water, and in holes  
 + masses (see above), the floor  
 of the in the same layer,

$$200.5 = 863$$

From 5-5 1/2 there is not a  
single broken bone. The  
claws are not broken widely

The first set, 7 Canteen  
about 100 ft. with 15)  
No. 100 ft. with 15)  
No. 100 ft. with 15)

858 = 2.00  
868 = 1.00

The white line 7 & 8 in  
newer numbers is white  
(probably E.) + trace in top  
with London + Berlin  
page 8. A little  
cut of wire at 8 - very







Mr. Thomas the  
 Measur. the  
 bridge a much  
 rougher  
 down from each  
 these mountains  
 1 low stream continue

These readings were taken Monday.

Readings at (5)	842 (832)
" (2)	720 (760)
" (3)	676 (670)
" (4)	640 (

Raining in afternoon and  
 about 10 at first hours  
 writing letters, etc.

Aug. 11, Mon. 1913

Went in forenoon. After  
 dinner went up to Mrs. Stokely  
 & worked on files on lower side  
 along the big drop

At Clinton - 662  
 RR. - 662

from end of bridge 655

About base of dam

on base road 4 on

Clinton at bridge 631

with elevation 2 feet in

5 mile & big stream.  
 1 = 2 } gravelly &  
 2 = 792 } top  
 3 = 820 }  
 4 = 840 -

The way there is a mile. 0

Long in about 14 m. 4

Look sample. 14

Clinton a very high level



July 10, 1913 - Sunday

A gloomy, stormy forenoon  
brooming rain.  
Wrote letters, etc.

At 1 P.M. left for Centre  
County north to S. line of  
County. Then by grade slope  
a long descent to S. E. & S.

The surface drops. There  
are sections (small) rather  
low) between these drops  
the more surface undulating

Only a few mounds.  
Sections known from  
the beam in numerous  
places but none very

little evidence of ~~weathering~~  
Weathered from ~~flashing~~  
thin than others in  
quite undulating

the  
surface is more undulating.

S (23) & 1/2 from long

There are long ridges in  
down bearing S.E.  
and S.W. & W. the  
plain is gently  
undulating, with  
ridges from local  
S. N. locally marked

S.W. little evidence of  
undulating (beats after  
here and there are small  
such like knolls

changes. Life in the  
plain gives no evidence  
of undulating surface  
of ~~undulating~~ way down  
Center the surface is  
again marked. The down

more pronounced,  
Very few more undulating  
places anywhere.



Camp 9 - John Henry

Arrive at 5 am.  
At Lake level 1050  
at 1000 feet 1125  
of distance

near to granite -

work in the lake

concrete steps

Lake near to granite

Rock

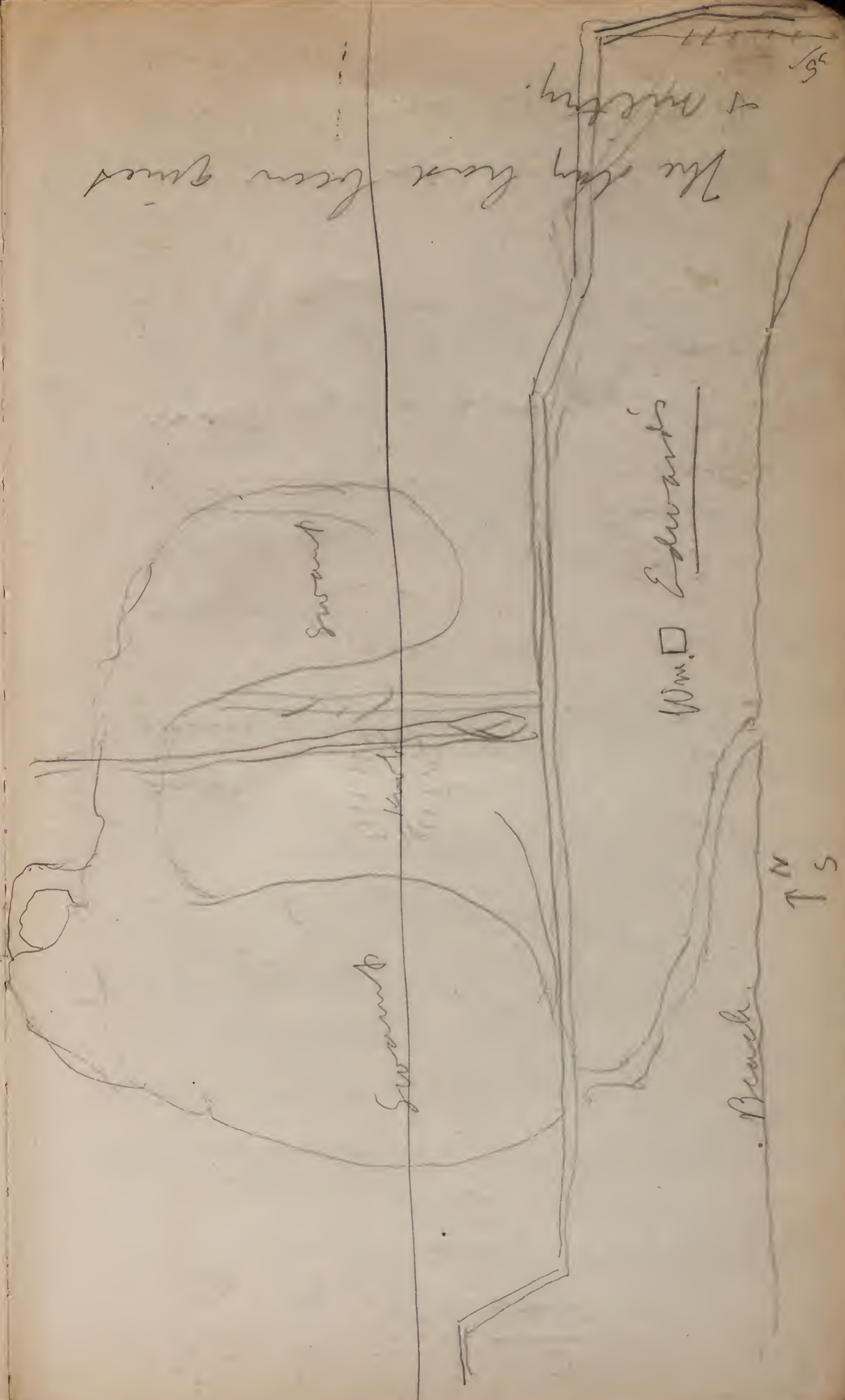
After West side of Mt. Henry  
river. From summit back  
with shells (see note)

also observed in grass  
at 3 1/4 mile back is  
granite, but from nothing

& granite, from former  
having except from some  
on back of green sand  
the land in line of hills  
many are in some hills

an island  
get into  
left at 9:10 pm. for  
Perry. Put up at the  
Green Hotel, - the old building

Home.





Picked up several grains  
 of iron & steel on  
 the beach on north bay

At about 12.15. note  
 the beach on north  
 bay & bridge, the iron  
 was seen in all the iron  
 the the water has a  
 strongly brackish  
 green, but a good many  
 out, I think you  
 The N.

N. 6 RR. a large  
 double lake counts  
 N. 6. in line.  
 The N. note (A.S. & W.  
 Lake) is simple, mostly  
 abundant, & the beach  
 are English beans  
 are covered with the  
 with fresh shells

The note S. of  
 in S. of the  
 in which found  
 fossils, in 11.30  
 11.45  
 15

Ran 10-15 ft.  
 station are rather  
 abrupt in both S & N  
 notes & little are broken  
 up from exposure in  
 fossils are fairly  
 collected others - from S & N  
 are in the 6. - from  
 part of west side of  
 lake.  
 These fossils were  
 evidently all counts.



and nothing of the kind

in the fields.

At the center of the lake -

1110 1094 16

The birds are about,

beach fishing

Providence must on that

lake, but a knot was

8-10 ft. higher 5 ft.

above this was a

beach fishing

4-5 ft. high. Fine.

On N. shore (west) a

high bank, 1117, is

about 1/2 hour

with a low green

bank in top. Some are

when Vils) Ostrich,

Further the bank is lower

on the west side (2 ft. high)

by English (10 ft. high) there

are a few scattered bushes

A large yellow, yellow,

greenish, are also.

extensive patches in water

between N. Bay (to north)

of Center Lake

A high bank in water

ridge are along with some

between them there are

scattered low ridges.



Lake S. = 1094  
 SW 1/4 sec. 1 - This  
 lake is common by banks.  
 Known down at N. A

*[The page contains faint, illegible handwriting, likely bleed-through from the reverse side.]*







*[Faint handwritten notes, possibly "The end of the world"]*

[illegible]



Remained at Cal. and  
packed, some plants,  
worked in water, etc. in

William

Afternoon visit west.

Reading:

Take down 1075

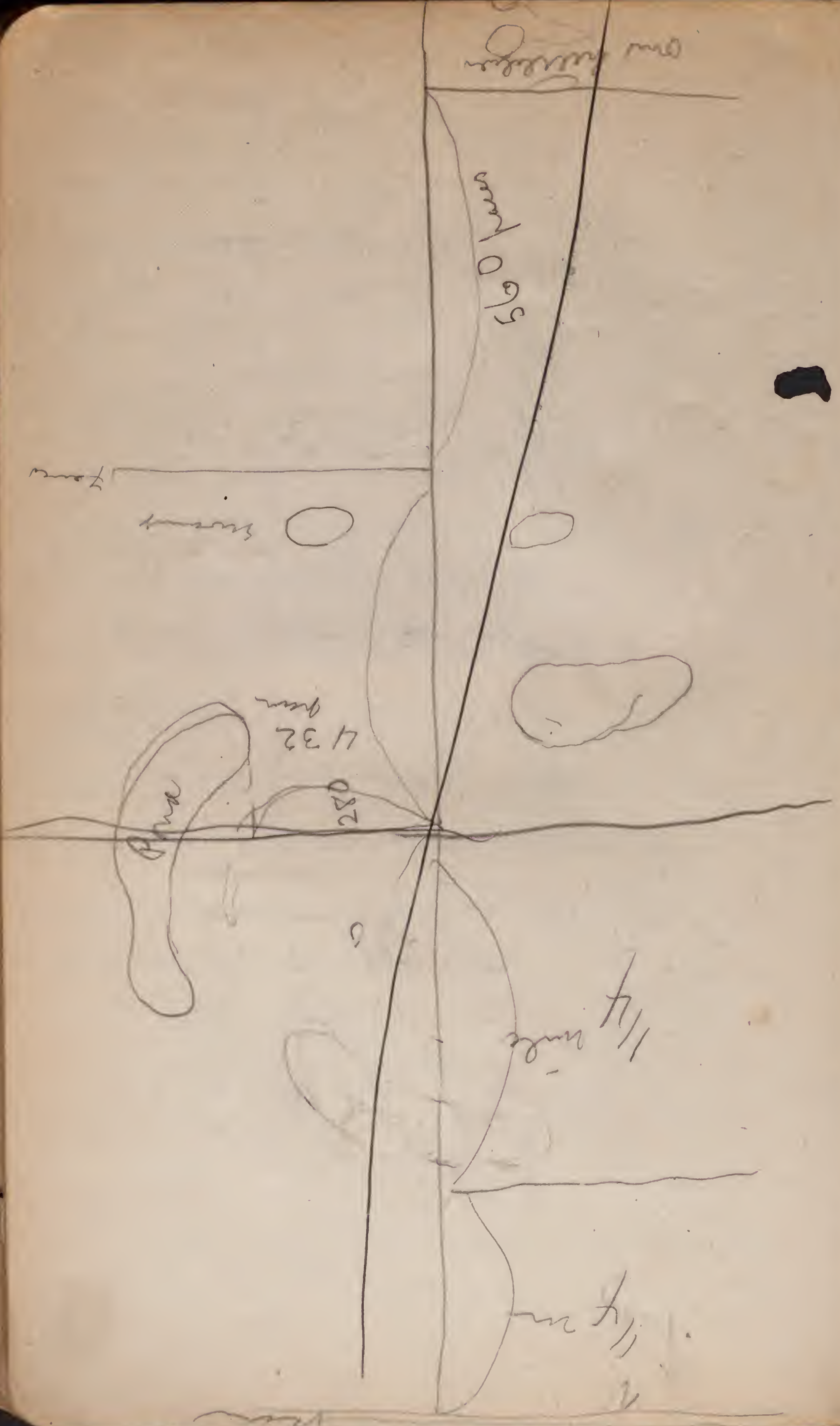
L601 Chryz. 2. 22

My old record 2-1098-1120

Oct 11 11 30

1874 August 10

to know the value 1187-1145 = 42





West | Brown at L.L.

With affection of your brother

Dear Mr. King

with on Grace St. - very

It has just returned to court

17  
18

Handwritten text, possibly a signature or name, written in cursive script.

1870

*Alnus in flower* Also

82



There is an almost level  
 all along S. side of bay & to  
 found in me 3. There is a  
 narrow strip of timber.

At bottom of E. Ditch  
 the bank extends with  
 some undulations for about  
 250 yds above and  
 on level. The N. side  
 plain is flat & in this  
 extent a few small willows  
 Right at the angle there  
 is a little bog & no trees.  
 Mean angle (in the lower  
 ground) the ocean level  
 is more than 100 yds.



a few deep cuttings.  
 A bank 3. in XXII  
 can grow 1 year old.  
 Plum XXII for 4 in at  
 in best & only after  
 a small number, given  
 after 1 cutting off +  
~~then a longer bank~~  
 Two long holes  
 2 wooden blocks  
 with between 2  
 the 2 benches.  
 Then a bank at foot of  
 12 ft high, then 6-8-  
 between at 1 block a  
 multiplying line of grass  
 growing up 1 year  
 their become more abundant,  
 especially fine ones, and the  
 bank was broad XXIII.  
 A cutting kept in also common here.  
 943 Lake  
 963 Branch at XXII

The grass near bank  
 in top line for 75 ft 2  
 there are benches  
 between 2 and  
 Run along at about  
 the height, rising to 25  
 ft then angle in more, + the  
 grass runs up on bank.  
 stones, about 100 ft from  
 the top of the bank  
 in summer.  
 A deep in front a little  
 below angle + then rise  
 to about same, then  
 again a drop to 10 ft  
 then 20 ft. Then 6  
 more about same with  
 just a little in top of bank.  
 The bank in May 15-  
 20 ft. 1 year old by the  
 in slope, with less in top.  
 This has been removed all  
 along the line in top by  
 4-5 years of vegetation.



9. Jordan Lake  
 at the end of the  
 the morning  
 the morning  
 the morning

[illegible]



North End in deep granite benches

At XVI The bench was very abrupt

to nearly 200'. But few trees

at XVII at a distance 20', and there

is an artificial best made

Native trees about now (about

XVII and XVIII) a few between

XVII - XVIII and about XIX

the above are quite flat.

At XIX a group of cotton. The

a commoner cotton a few from

the lake. It has only a few water

at west end.

At the N. shore to the center

(to road) in grass and mostly water

except for a group of water (about)

green with in the N. 1/2 of the 1/4 of

There are also several small green

at 11

South from the point the bench is

consisting of these are about benches

with a more heavy of greenish

at 12

at 11

at 10

at 9

at 8

at 7

at 6

at 5

at 4

at 3

at 2

at 1

at 0

at -1

at -2

at -3

at -4

at -5

at -6



nearly all are seen  
 by also.  
 All along in front of them  
 is a fine view of the coast  
 and 2 - 2 = 4 ft high +  
 within 10, 15, 20 ft in  
 front of them, a low  
 ridge of gravel, - making  
 a double or more ridge - in  
 2 mounds about 200 ft apart.  
 That marked the top of  
 a continuous ridge, 200 ft  
 in diameter, in front of them  
 (group, or sphere above)  
 and from 115 mounds.  
 These are the same ridges  
 from last time, the  
 same group  
 nearly a fourth of the  
 one last time and about  
 1/2 them.

Some fragments as in  
 the ground in scattered  
 form. The north side  
 of the two larger mounds  
 (next the lake) mounds are  
 from 10 ft, more or  
 mostly small with small  
 mounds. Some little  
 (Pt. XV is at base where there  
 is an elevation of steep bank +  
 mounds of gravel - with some  
 leaves 3 ft or more)  
 (Pt. XVI marks the W. side of  
 bank from the lower part, not  
 up to the lower part, but the  
 bank is a steep from 25 ft  
 100 yds with  
 the lower side N. are some  
 connected with main bank.  
 At XVI are many fragments +  
 are along there in a line of mounds  
 on the one side with 3 ft  
 at base 8 10 ft. mounds 3 ft  
 from XVI



To down for a bunch of  
 am. sem, incan (S. camp) &  
 a spencer & two. A few quail  
 the sem & incan are barren

Don John & Company are interested  
next - green creek -

March 20th 1891  
at a distance of 200 yds  
from land wharf.

E. G. W. Price & Son  
To send the 100 yds beyond

The old San Juan Lodge.  
21st January 1890



Robinson Lake is now  
 also called Little  
 Arrow Lake connects  
 with Little Lake

At the point of west  
 side of Lake Stuart there  
 is a bank 7-8 ft high  
 but no trees except a  
 group of 100 spruce which  
 are alone  
 The west side is a  
 & mountain - some clear  
 water from the lake  
 on to rise on low bank  
 is a sparse widely leaved  
 The arctic forest of  
 grass as 1/2 ft. high in  
 cotton (and) grass and  
 mosses

Arrow Lake (the little  
 lake between Hells & Wendle  
 Forks, is called by the name  
 of Crater Lake - a name from  
 & Crater Lake? To have been  
 formed within the memory of  
 man.  
 Mr. Webster (?) mentioned  
 Crater Lake (also said 3/4 m. ago)  
 says that grass has not  
 increased in area since  
 from north but that  
 mountain is down



With the lower beds  
I little that take  
in form are rounded,  
irregular, and present  
that much about as  
common in the whole  
series of the whole region.  
The upper part is more  
to be 15 & 18 ft. deep  
and shows clear beds,  
part, in chiefly of not  
very in thickness.

The region W. & S.W.  
of these taken in  
the lower & the upper  
down to Lake and Bay  
and rather gentle.  
It must be remembered  
that no all these  
where there are bands

Along the lake they are  
variable in length, usually  
running in a series of steps or  
curves, and  
fractures quite irregular.

When attention is given they  
usually represent broken  
beds, or series of layers  
which that seem to be  
nearly horizontal.

There is no consistent fact,  
however, namely that there  
often only where there  
is a band, to show them.  
After one starts they can  
see above the base of their

fractures which would  
Very few bands which would  
show from the S.W. or W. or  
without this. In these cases probably  
an accident of distribution.  
It is interesting to note, too, that  
step bands are frequent for a very short  
distance even on the horizontal note.



The lower part (50')  
of the lower section = Refractive

lake. The upper section  
Refraction = Refractive

lake many small  
are between the  
of the lake & there

section about 25 ft  
high, almost a full  
ridge of floor on top.

all well marked.  
In the lower marked "stump"

the lower part of the  
taken there a 200  
across the section, indicating

the lower part of the  
our section, and no remains  
of the 200 ft. of the section

There is a section of the  
M.E. and 2 marked lake  
green to the top of the

low lies - green with  
Another of 2.5 ft. -  
all the same section

The upper section = Refractive  
part 25 ft

the upper section of  
the lake about 25 ft

the upper section of  
the lake about 25 ft

the upper section of  
the lake about 25 ft

the upper section of  
the lake about 25 ft

the upper section of  
the lake about 25 ft

the upper section of  
the lake about 25 ft

the upper section of  
the lake about 25 ft

the upper section of  
the lake about 25 ft







Presen pt. XII + above X111

Marble Lane Temple &



Always the the same in the

but there is a ~~small~~ box

garden, quite all water & ~~nothing~~ <sup>nothing</sup>

a little water from the

to the

The all the time the

beginning on E. (center) side

(very)

1 or 2 benches on the

best.

Another bench was

was (10-15-17) no steps,

with two in its middle

from the top.

about 20 ft. in width

of bench.

about 8 ft

Remains down to 10-12 ft.

very even.

Lower bench 8-5-7

Run 12-16

There is a plain bench 11

Run to 870 m. in the

This bench is an almost

Frank. A few low walls

I believe are scattered about

on top of bench & bench

is some heavy work,

mainly green earth

bench.

total = 845

very good = 870

then on top of bench a high

is some with (25 ft) & a few more

of platform are in top.

collected box of stone more

learned top of bench - they were

mainly on E. side of the bench

top bench. All from east.

Pl. XIV - 10 ft. bench again

835 total cost

855

865

875

885

895

905

915

925

935

945

955

965

975

985

995

1005

1015

1025

1035

1045

1055

1065

1075

1085

1095

1105

1115

1125

1135

1145

1155

1165

1175

1185

1195

1205

1215

1225

1235

1245

1255

1265

1275

1285

1295

1305

1315

1325

1335

1345

1355

1365

1375

1385

1395

1405

1415

1425

1435

1445

1455

1465

1475

1485

1495

1505

1515

1525

1535

1545

1555

1565

1575

1585

1595

1605

1615

1625

1635

1645

1655

1665

1675

1685

1695

1705

1715

1725

1735

1745

1755

1765

1775

1785

1795

1805

1815

1825

1835

1845

1855

1865

1875

1885

1895

1905

1915

1925

1935

1945

1955

1965

1975

1985

1995

2005

2015

2025

2035

2045

2055

2065

2075

2085

2095

2105

2115

2125

2135

2145

2155

2165

2175

2185

2195

2205

2215

2225

2235

2245

2255

2265

2275

2285

2295

2305

2315

2325

2335

2345

2355

2365

2375

2385

2395

2405

2415

2425

2435

2445

2455

2465

2475

2485

2495

2505

2515

2525

2535

2545

2555

2565

2575

2585

2595

2605

2615

2625

2635

2645

2655

2665

2675

2685

2695

2705

2715

2725

2735

2745

2755

2765

2775

2785

2795

2805

2815

2825

2835

2845

2855

2865

2875

2885

2895

2905

2915

2925

2935

2945

2955

2965

2975

2985

2995

3005

3015

3025

3035

3045

3055

3065

3075

3085

3095

3105

3115

3125

3135

3145

3155

3165

3175

3185

3195

3205

3215

3225

3235

3245

3255

3265

3275

3285

3295

3305

3315

3325

3335

3345

3355

3365

3375

3385

3395

3405

3415

3425

3435

3445

3455

3465

3475

3485

3495

3505

3515

3525

3535

3545

3555

3565

3575

3585

3595

3605

3615

3625

3635

3645

3655

3665



Went around 10.20 AM

Found Lake. The whole S. shore

is low, with low banks on N.

There was enormous quantity of

a growth of *Salix pyramidalis*

along the N. bank.

Some 500 ft. long & 100 ft. wide

the water & surrounding area - see

Sketch. Also a small bank

at 22 ft. high. 829

Along the N. shore but not

in *Salix*. The following

are seen:

*Salix*

*Salix*

*Salix*

*Salix*

*Salix*

*Salix*

*Salix*

*Salix*

*Salix*

*Salix*

*Salix*

*Salix*

*Salix*

*Salix*

*Salix*

*Salix*

The water is increasing

The water, which has been

a great little by the water

gate 29. The water is a great

deal which will fill the water

gate with the water the

are along to the water the

two are chiefly in the water

through narrow low water

up the water gate in a water

of water.

Along the N. shore a few

water & surrounding area -

large area of

at 22 ft. high. 823

804

19

Bank with slight bank

18-20 ft. above water.

Banking here

over - water

water (low)

water

water (low)

A narrow line of the water

& water from above to water

*Salix*

*Salix*

*Salix*



The number was sent to you  
Mr. Carter & there are no trees  
(native) except a few European trees  
etc. The region between the  
two lakes is flat & sandy.

[illegible]



Aug. 4 - 1913 - Mon.

Shore north at the outlet

Reflected in morning that

the water was very low

most a little higher

best landing + green along

main strip.

On the side of lake above

best landing up to point N.

The cliffs are low to water -

10-20 ft high, rounded, + water.

The point ~~also~~ landing in

2. mile, to point and further

between north and south

The low rounded cliff runs

across to cut off point between

the two rivers

When the water is low, the bridge

strong looks a mile, across, green and

cut across. Across the 5.8 1/2 of water 1/4 of water. 3.

the green 2. of water + mostly greenish

and runs along on a rather gentle

slope. Probably at the higher level

of water was not in the side of the

rather like there would be no

water but the current (a low) are

some of the current (a low) are

large + some old stumps

across the green, like water

there is made up of trees 6-10

in stream.

My draw bridge to the stream

the following things are shown:

Point N. 1. Point N. 2. Point N. 3.

Point N. 4. Point N. 5. Point N. 6.

Point N. 7. Point N. 8. Point N. 9.

Point N. 10. Point N. 11. Point N. 12.

Point N. 13. Point N. 14. Point N. 15.

Point N. 16. Point N. 17. Point N. 18.

Point N. 19. Point N. 20. Point N. 21.

Point N. 22. Point N. 23. Point N. 24.

Point N. 25. Point N. 26. Point N. 27.

Point N. 28. Point N. 29. Point N. 30.

Point N. 31. Point N. 32. Point N. 33.

Point N. 34. Point N. 35. Point N. 36.

Point N. 37. Point N. 38. Point N. 39.

Point N. 40. Point N. 41. Point N. 42.

Point N. 43. Point N. 44. Point N. 45.

Point N. 46. Point N. 47. Point N. 48.

Point N. 49. Point N. 50. Point N. 51.

Point N. 52. Point N. 53. Point N. 54.

Point N. 55. Point N. 56. Point N. 57.

Point N. 58. Point N. 59. Point N. 60.

Point N. 61. Point N. 62. Point N. 63.

Point N. 64. Point N. 65. Point N. 66.

Point N. 67. Point N. 68. Point N. 69.

Point N. 70. Point N. 71. Point N. 72.

Point N. 73. Point N. 74. Point N. 75.

Point N. 76. Point N. 77. Point N. 78.

Point N. 79. Point N. 80. Point N. 81.

Point N. 82. Point N. 83. Point N. 84.

Point N. 85. Point N. 86. Point N. 87.

Point N. 88. Point N. 89. Point N. 90.

Point N. 91. Point N. 92. Point N. 93.

Point N. 94. Point N. 95. Point N. 96.

Point N. 97. Point N. 98. Point N. 99.

Point N. 100. Point N. 101. Point N. 102.

Point N. 103. Point N. 104. Point N. 105.

Point N. 106. Point N. 107. Point N. 108.

Point N. 109. Point N. 110. Point N. 111.

Point N. 112. Point N. 113. Point N. 114.

Point N. 115. Point N. 116. Point N. 117.

Point N. 118. Point N. 119. Point N. 120.



within a little to take  
 away of road and continues to  
 for a short distance. Then  
 only on left side  
 The grassy ridge runs where  
 road is broken from left to  
 the south and here higher,  
 where road runs over &  
 like the benches are  
 level and only a  
 group of low hills.

That section runs some  
 2 then slightly lower E. as  
 a steep bank from N.  
 The benches only are  
 truncated the top of the  
 remains only in spots.  
 The top of timber runs E.  
 on N. side of road down  
 gravel bank has sharp  
 a bench running across  
 at N.W. corner is indicated.  
 a little higher above  
 Pot 18 is on level, but  
 must be this bench back  
 from side of section along  
 like  
 Pot 18 is level.  
 The thin in level runs  
 to water & fringe of  
 grassland & western  
 along low bank to  
 road.

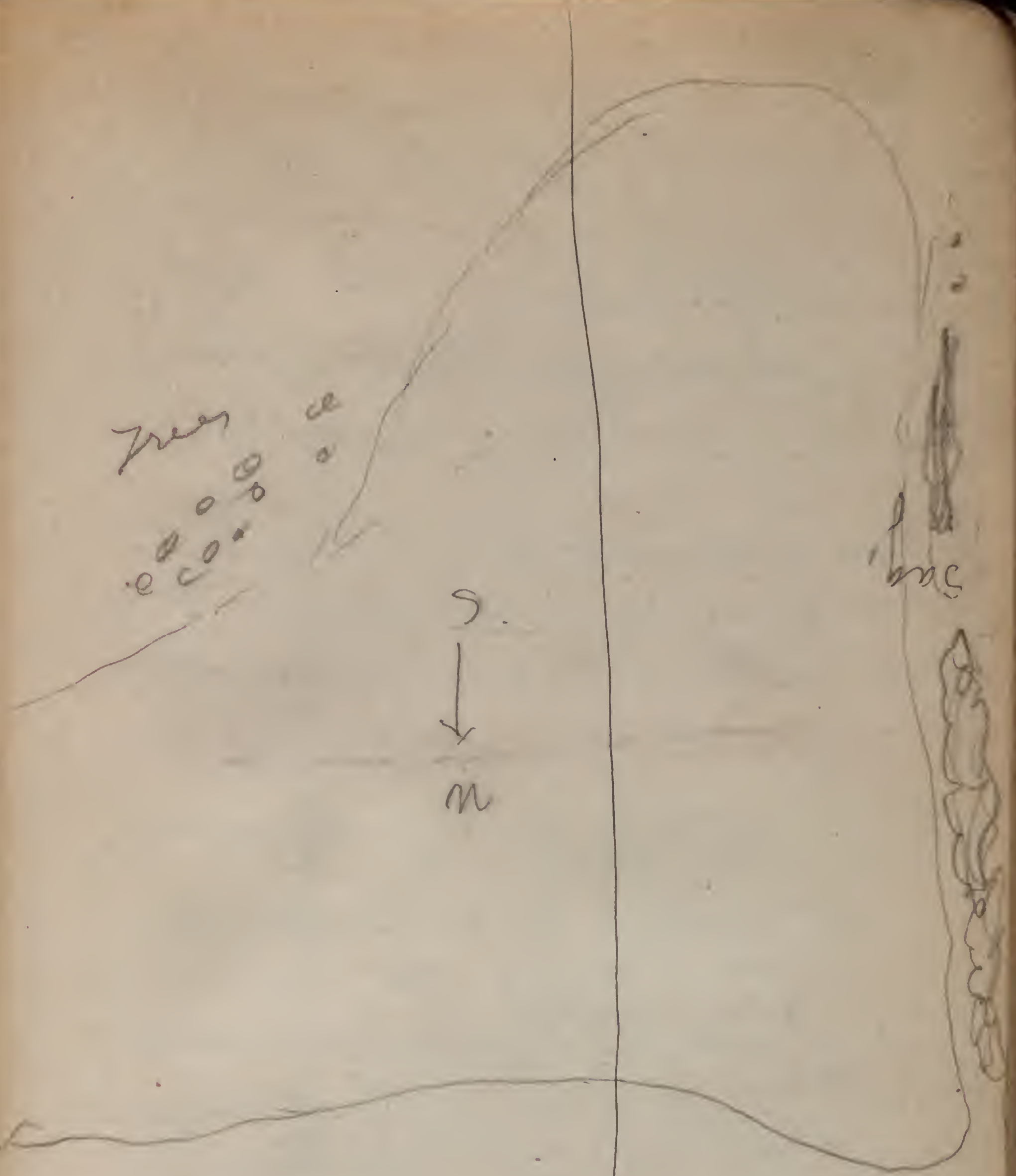


Found in S.W. on the side

1/10/1919



There are no high cliffs,  
 but benches in W. side are  
 10-15 ft. high & there are  
 about bench in E. side  
 where low grass



Rock level = 880  
 High cliff  
 1/2 mile west  
 933

Thin - highest point here  
 as I saw no longer

all same  
 932  
 Rock level = 796  
 137

! There have been some  
 strong pt. thought some  
 along there and much with great  
 number coming to road.  
 The benches are almost all not  
 high, but all along to some  
 V The first seems to be a  
 extends up on slope, and  
 back. The country is there  
 and is broken by some  
 grassy low hills longer and lower



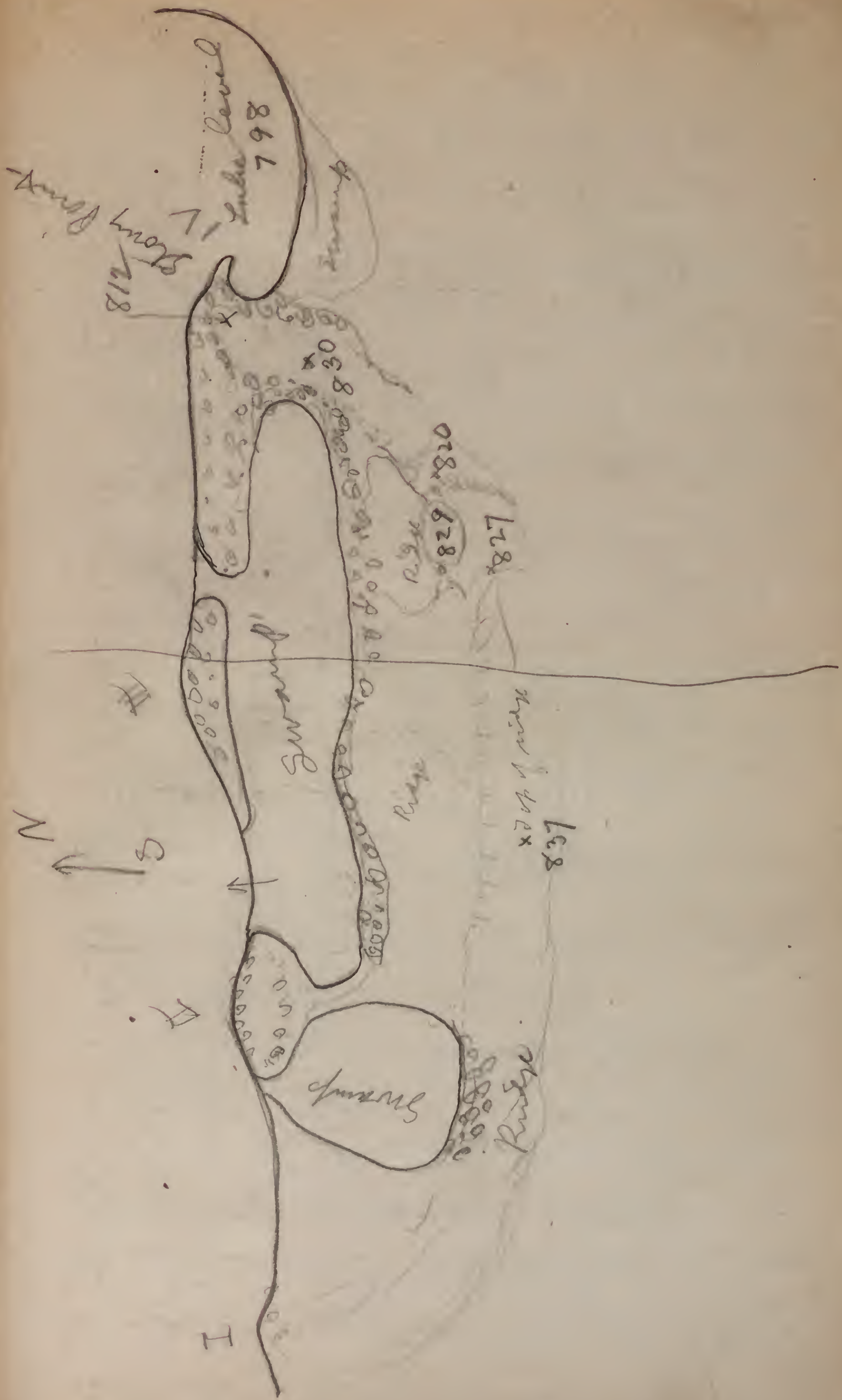
Give money first, then  
money time, then

22. And  
May God of comfort be  
and source of life



1. *Am. Bl. Green*  
 2. *Am. Bl. Green*  
 3. *Am. Bl. Green*  
 4. *Am. Bl. Green*  
 5. *Am. Bl. Green*  
 6. *Am. Bl. Green*  
 7. *Am. Bl. Green*  
 8. *Am. Bl. Green*  
 9. *Am. Bl. Green*  
 10. *Am. Bl. Green*  
 11. *Am. Bl. Green*  
 12. *Am. Bl. Green*  
 13. *Am. Bl. Green*  
 14. *Am. Bl. Green*  
 15. *Am. Bl. Green*  
 16. *Am. Bl. Green*  
 17. *Am. Bl. Green*  
 18. *Am. Bl. Green*  
 19. *Am. Bl. Green*  
 20. *Am. Bl. Green*  
 21. *Am. Bl. Green*  
 22. *Am. Bl. Green*  
 23. *Am. Bl. Green*  
 24. *Am. Bl. Green*  
 25. *Am. Bl. Green*  
 26. *Am. Bl. Green*  
 27. *Am. Bl. Green*  
 28. *Am. Bl. Green*  
 29. *Am. Bl. Green*  
 30. *Am. Bl. Green*  
 31. *Am. Bl. Green*  
 32. *Am. Bl. Green*  
 33. *Am. Bl. Green*  
 34. *Am. Bl. Green*  
 35. *Am. Bl. Green*  
 36. *Am. Bl. Green*  
 37. *Am. Bl. Green*  
 38. *Am. Bl. Green*  
 39. *Am. Bl. Green*  
 40. *Am. Bl. Green*  
 41. *Am. Bl. Green*  
 42. *Am. Bl. Green*  
 43. *Am. Bl. Green*  
 44. *Am. Bl. Green*  
 45. *Am. Bl. Green*  
 46. *Am. Bl. Green*  
 47. *Am. Bl. Green*  
 48. *Am. Bl. Green*  
 49. *Am. Bl. Green*  
 50. *Am. Bl. Green*  
 51. *Am. Bl. Green*  
 52. *Am. Bl. Green*  
 53. *Am. Bl. Green*  
 54. *Am. Bl. Green*  
 55. *Am. Bl. Green*  
 56. *Am. Bl. Green*  
 57. *Am. Bl. Green*  
 58. *Am. Bl. Green*  
 59. *Am. Bl. Green*  
 60. *Am. Bl. Green*  
 61. *Am. Bl. Green*  
 62. *Am. Bl. Green*  
 63. *Am. Bl. Green*  
 64. *Am. Bl. Green*  
 65. *Am. Bl. Green*  
 66. *Am. Bl. Green*  
 67. *Am. Bl. Green*  
 68. *Am. Bl. Green*  
 69. *Am. Bl. Green*  
 70. *Am. Bl. Green*  
 71. *Am. Bl. Green*  
 72. *Am. Bl. Green*  
 73. *Am. Bl. Green*  
 74. *Am. Bl. Green*  
 75. *Am. Bl. Green*  
 76. *Am. Bl. Green*  
 77. *Am. Bl. Green*  
 78. *Am. Bl. Green*  
 79. *Am. Bl. Green*  
 80. *Am. Bl. Green*  
 81. *Am. Bl. Green*  
 82. *Am. Bl. Green*  
 83. *Am. Bl. Green*  
 84. *Am. Bl. Green*  
 85. *Am. Bl. Green*  
 86. *Am. Bl. Green*  
 87. *Am. Bl. Green*  
 88. *Am. Bl. Green*  
 89. *Am. Bl. Green*  
 90. *Am. Bl. Green*  
 91. *Am. Bl. Green*  
 92. *Am. Bl. Green*  
 93. *Am. Bl. Green*  
 94. *Am. Bl. Green*  
 95. *Am. Bl. Green*  
 96. *Am. Bl. Green*  
 97. *Am. Bl. Green*  
 98. *Am. Bl. Green*  
 99. *Am. Bl. Green*  
 100. *Am. Bl. Green*

*Western bird -*  
*Northern golden-*  
*Pheasant*  
*Cygnus Americanus*  
*Anas americana*  
*Rallies in autumn*  
*(Spent some time)*  
*Kanab*  
*Oregon (dark spot)*  
*In spring around*





the two first are Picea

They are growing in gravel  
 & limestone rubble mostly  
 could have been  
 they are well worked  
 specimens.

(X I)  
 The next lot. 821

795  
 26

is a small lot of that  
 in which I think a

number of Picea  
 & Larix (see) is a

lot of a Larix, Picea  
 & Larix one or two

Picea the middle of the  
 21 (a lot of Larix and Picea)

is a fine specimen of Larix  
 in the upper part of the lot

a small lot of Picea  
 in the upper part of the lot

Picea I & II  
 as a lot of Picea  
 & Larix (see) are  
 in a lot of Picea  
 & Larix (see) are

at the same place  
 the same lot of Picea I

are also on the lot  
 Picea of Picea I is a small lot

lot of Picea I is a small lot  
 lot of Picea I is a small lot

lot of Picea I is a small lot  
 lot of Picea I is a small lot

lot of Picea I is a small lot  
 lot of Picea I is a small lot

lot of Picea I is a small lot  
 lot of Picea I is a small lot

lot of Picea I is a small lot  
 lot of Picea I is a small lot

lot of Picea I is a small lot  
 lot of Picea I is a small lot

lot of Picea I is a small lot  
 lot of Picea I is a small lot



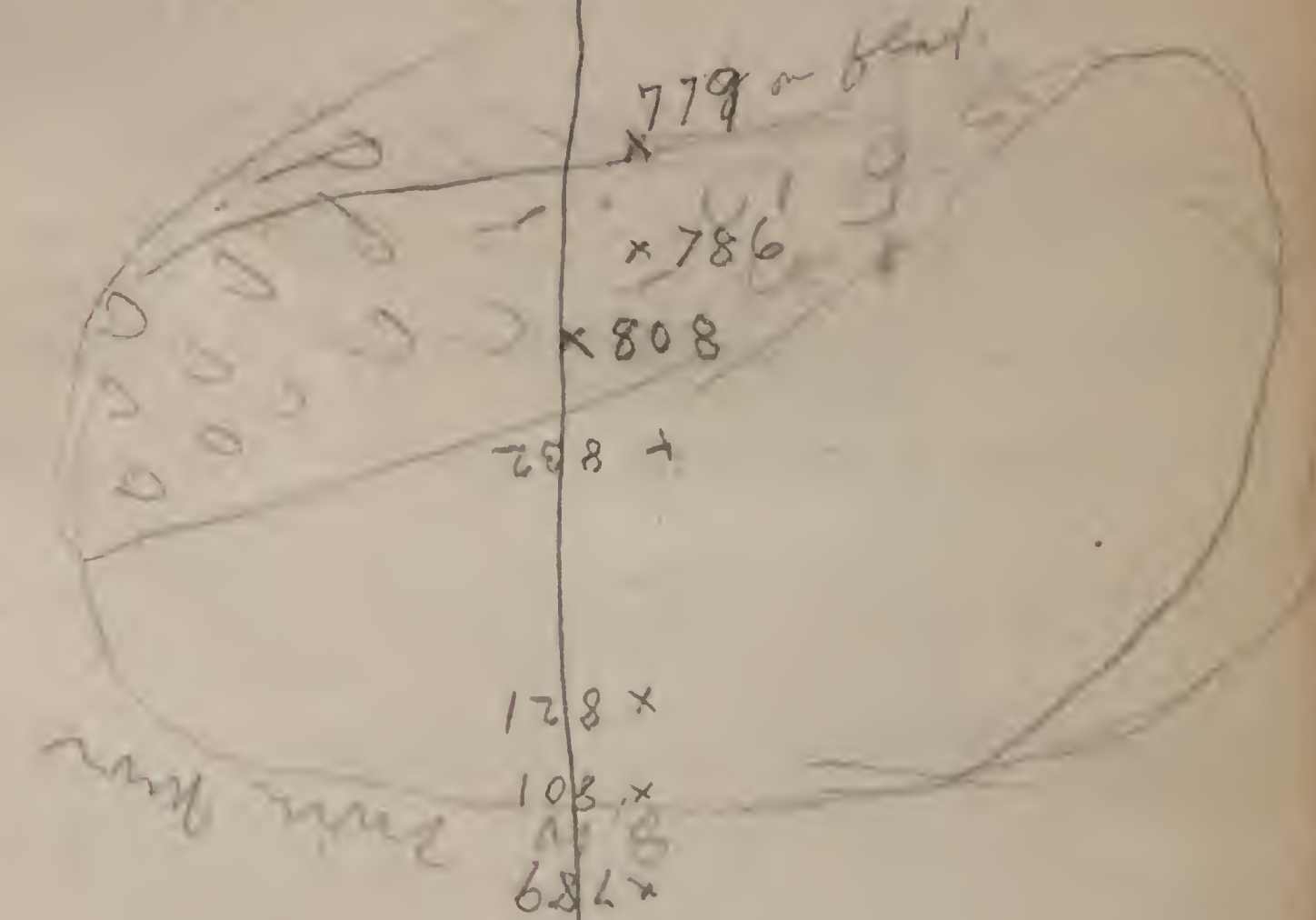
$\frac{1}{2}$  Me. Line. There are

11 - 17



West of Brown Mountain  
 section a few miles S  
 along road = see above  
 Top of S.W. Brown Mountain

$$\begin{array}{r}
 832 \\
 786 \\
 \hline
 46
 \end{array}$$



The top of Brown Mountain  
 from road  
 New section from Brown Mountain  
 New section from Brown Mountain  
 New section from Brown Mountain  
 New section from Brown Mountain  
 New section from Brown Mountain

Brown Mountain  
 section a few miles S  
 along road = see above  
 Top of S.W. Brown Mountain  
 New section from Brown Mountain  
 New section from Brown Mountain  
 New section from Brown Mountain  
 New section from Brown Mountain  
 New section from Brown Mountain

The top of Brown Mountain  
 from road  
 New section from Brown Mountain  
 New section from Brown Mountain  
 New section from Brown Mountain  
 New section from Brown Mountain  
 New section from Brown Mountain



Along the left side of the  
 bridge the trees were up to  
 length about 30 ft above water  
 (height as about 15-20) &  
 5. The is a small bridge  
 with many smaller water  
 falls.  
 Water was not clear  
 12 miles in length there is  
 and a small amount of  
 the water along 1 mile  
 was about 100 yds out  
 from edge of bank, &  
 bank is about  
 top of bank was 815  
 786  
 29 64  
 As the boat came into port  
 several more bridges were of  
 fine water.  
 a way in back some bridge  
 12 miles of grass. Then  
 2 in line in grass some  
 and down

*(Faint handwritten notes, possibly bleed-through from the reverse side of the page.)*

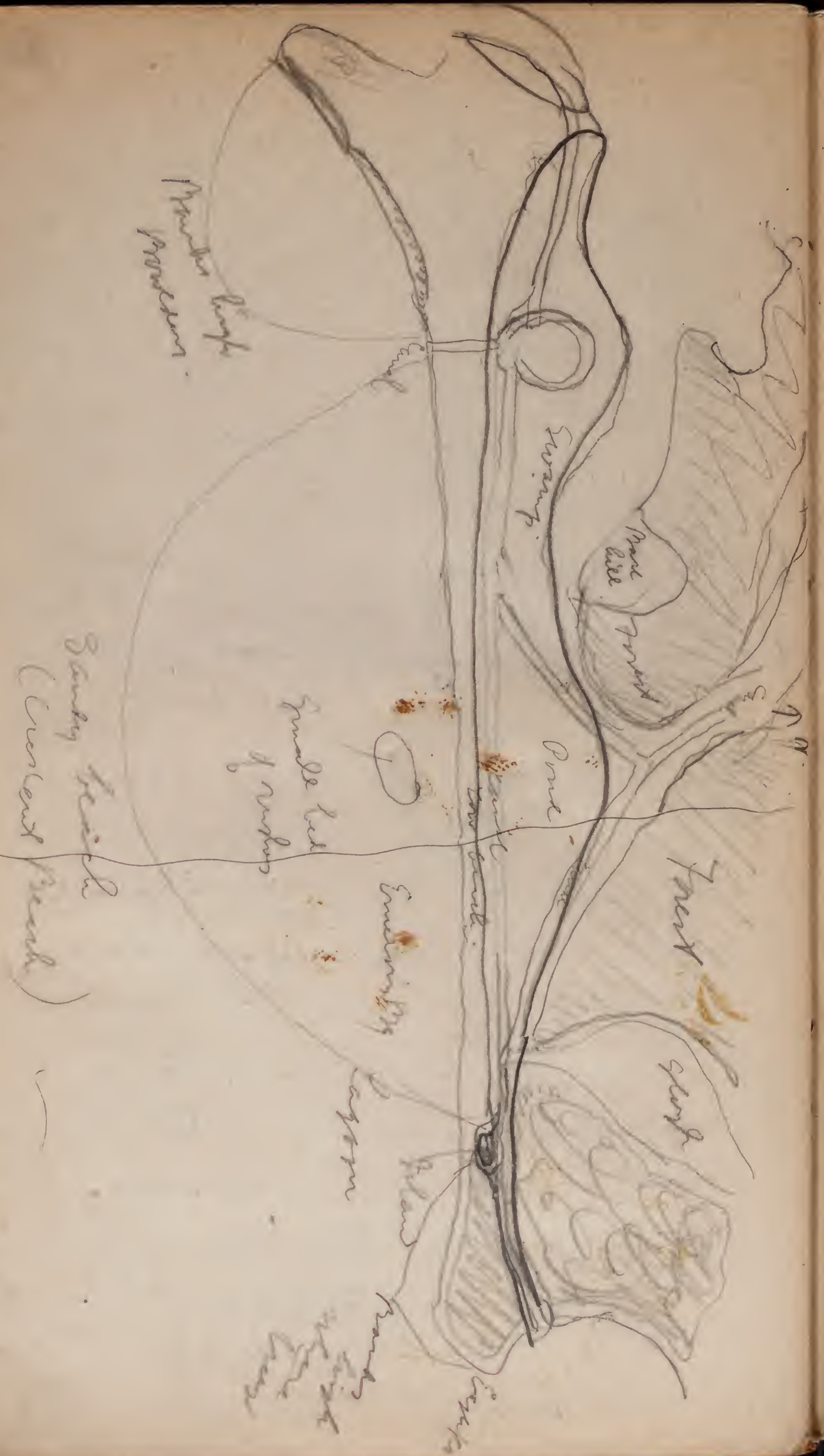
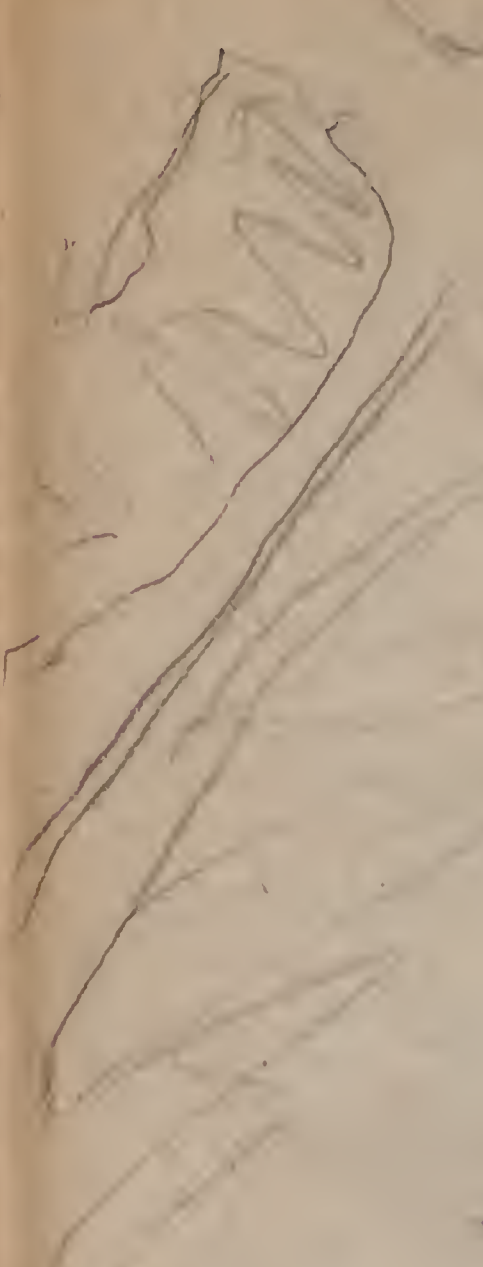


This man left in 1860 we never  
 again to Church's Park.  
 (Crested) Regulus or Heron  
 again, the only bird seen of  
 which I saw. Some were on  
 the top of the hill - the only  
 one I saw. See also on road  
 of water. See also on road  
 also the (??) on bank  
 on S. side of E. Chertsey.  
 They were in thick, alpine  
 (Chertsey) etc. see also  
 786 - Crested Regulus of  
 E. Chertsey Lake.  
 The W. side at 8. and 9  
 E. Chertsey is almost  
 the E. side of the sea  
 in rough water. The  
 water is very rough &  
 the above from bank &  
 was from many in alpine  
 A. Chertsey  
 Much better than the  
 780

$$\begin{array}{r} 78 \\ \hline 830 \\ 916 \end{array}$$



E & H. shown at Eagle Pt.  
 are about a mile.  
 Swamp NW of this where  
 some grassy thick & swamp  
 are along N. side of  
 W. of where long straight line  
 N.E. corner in  
 along N. side canal  
 near mouth there are  
 thick & water 15-25 ft  
 above level on 2nd line  
 at 2nd corner  
 looking E. the corner E.  
 side of corner above corner  
 are low water, - a few  
 more of them





A short distance from  
no further on the left side

1. *Agrostis alba*  
 2. *Agrostis alba*  
 3. *Agrostis alba*  
 4. *Agrostis alba*  
 5. *Agrostis alba*  
 6. *Agrostis alba*  
 7. *Agrostis alba*  
 8. *Agrostis alba*  
 9. *Agrostis alba*  
 10. *Agrostis alba*



Aug. 2 - 1913

On afternoon went to Ben's  
 at 1. There are high banks all  
 along except at north stream.  
 To the Ben's farm, - Ben's

everywhere were  
 The children are all  
 around Ben's on left  
 bank at 9 - Ben's  
 stream are around  
 the bank 2 is 2 ft above water  
 between 2 + 3. The stream is fast  
 carry 1 + only a few fish & weeds (small)

The stream is fast  
 The stream is fast  
 The stream is fast

Bank at 764  
 Top of bank 5. 781  
 17

South the bank was 3-4 ft high  
 At 764 road - bank N. + S.

Ben's farm. The 3. m. bank  
 with Ben's

on right side stream  
 Ben's all stream.

See other end of  
 road  
 1  
 worked with  
 Ben's



Potamogeton nodosus occurs at  
 lower end - Both Lickens -  
 we make, collection patches of  
 plants in sandy beach  
 at Tanager Park.

See other end of  
 forest.

Saw just S of West Park

near cave - 788  
 top of hill - 830

height - about 30 ft.

The Lickens are more abundant  
 on the sides of trees - common the

open.

Examination of specimens no. 4  
 15

near cave 1780

top of hill 810

They run a little higher

The woods run along

about 300 yds from

lake shore

from (American museum?)

in original American garden

above lake (see note)

from that the first

large clump in native

N. of lower beach in lake

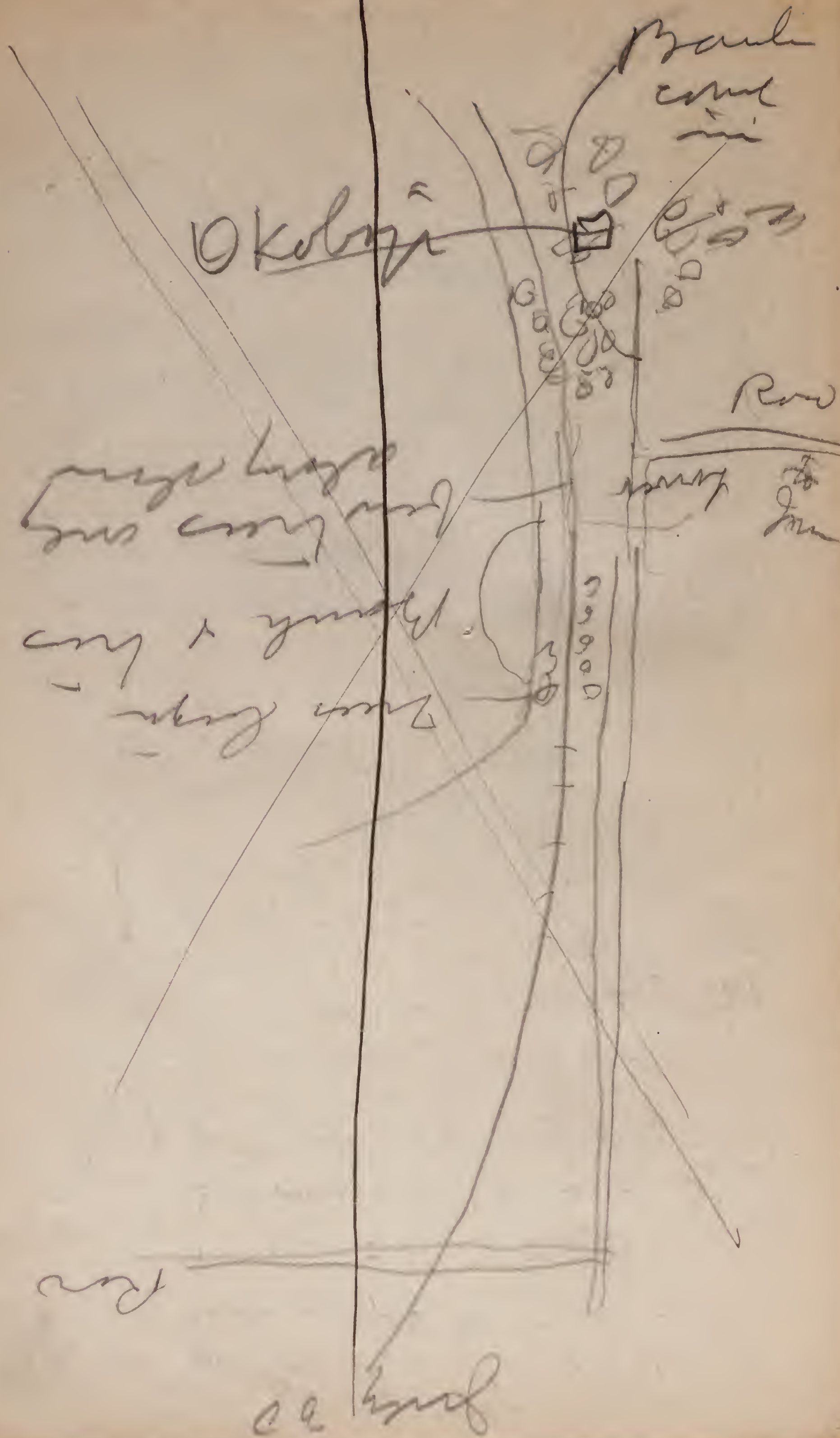
has been cut away.

from American garden along  
 (see note)









July 30  
 Station 25 is on bank  
 Station 26 is S. of  
 center of 26 = 1018.  
 Sta 27 - 1024  
 Sta 28 - 1065  
 West of center of  
 (mainly 26)



This image shows a blank, aged, cream-colored page, likely an endpaper or flyleaf of a book. The paper has a slightly textured appearance with some minor creases and discoloration, characteristic of old paper. A vertical line runs down the right side of the page, possibly indicating a fold or the edge of the binding. The overall tone is warm and off-white.

13  
Paid at 7/10



Many of the earliest fossils  
 have been found here -  
 but none!  
 The fossils are mostly  
 + the primitive (greenish)  
 blue gray light  
 a primitive rock at  
 we find trap basins  
 almost to Lake  
 carbon (heavy) in (small)  
 for the 10 x 15  
 from the opposite  
 taken from the line of  
 western middle line of  
 are 10 x 15 striking the  
 Lake the line of the  
 and a few shingles  
 only of them  
 Near W. line of the 15  
 there is a thick bank  
 10-15 ft. with small  
 grains of limestone, an  
 am. sh. with water  
 3 greenish

A few sections (limestone)  
 extend up the slope.  
 The rock from the line to the  
 point in question (and  
 steep ascending) from  
 Lake with some, a small  
 no less apparent  
 for 2 or 3 miles W. of W. line  
 of the 15 there is a  
 low bank - 6-8 ft. -  
 + a little (gray limestone)  
 am. sh., calcareous, soft  
 they are minute  
 westward the stone is very  
 gray & rises with some  
 greenish, no less for  
 some distance except one  
 when found in place.  
 Parts of them - some  
 abundant - (over)







1890

... a ...



July 30, 1913

Left from Star Line 5. on W.  
and E. Shirley.

at Star Line water = 1000 ft

S. 2 drainage - 2 levels - 5.00  
street A 1 1/2 levels

original from river at level 4  
= 1038

level 10. from level 4. in 10 ft.  
part is all sand - drainage  
not a vent, with some

level 10.

1 level 10. A. 4. many levels.

level 10. (A. 4. many levels) = 1055

level 10. at level 2. level 10.

level 10.

level 10. level 10. level 10.

level 10. level 10. level 10.

level 10. level 10. level 10.

level 10. level 10. level 10.

level 10. level 10. level 10.

level 10. level 10. level 10.

level 10. level 10. level 10.

level 10. level 10. level 10.

level 10. level 10. level 10.

level 10. level 10. level 10.

CTXL

100

level 10.  
level 10.  
level 10.



